

625.13  
N489h  
v. 14  
pt. 4

NEW YORK STATE BRIDGE AND TUNNEL COMMISSION

AND

NEW JERSEY INTERSTATE BRIDGE AND TUNNEL COMMISSION



## THE HOLLAND TUNNEL

### CONTRACT NO. 14

LAND VENTILATION BUILDING  
RIVER VENTILATION BUILDING  
INTERIOR LAND SHAFTS  
INTERIOR RIVER SHAFTS

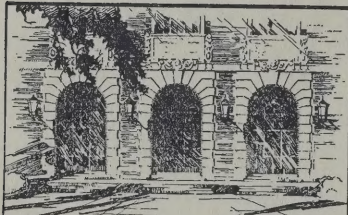
NEW JERSEY

CONTRACT DRAWINGS 111 to 144

PART NO. 3 of 3 PARTS

1925





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625.13

N484h

v.14

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A. C. WILLARD

Ans. ....







NEW YORK STATE BRIDGE AND TUNNEL COMMISSION

AND

NEW JERSEY INTERSTATE BRIDGE AND TUNNEL COMMISSION



# THE HOLLAND TUNNEL

## CONTRACT NO. 14

LAND VENTILATION BUILDING

RIVER VENTILATION BUILDING

INTERIOR LAND SHAFTS

INTERIOR RIVER SHAFTS

NEW JERSEY

CONTRACT DRAWINGS 111 to 144

PART NO. 3 of 3 PARTS

1925







62513  
N4842  
v. 14  
pt. 4

2/19/49 TALMADGE

**NEW YORK STATE BRIDGE AND TUNNEL COMMISSION**  
**AND**  
**NEW JERSEY INTERSTATE BRIDGE AND TUNNEL COMMISSION**

**NEW YORK STATE BRIDGE AND TUNNEL  
COMMISSION**

GEORGE R. DYER, Chairman

E. W. BLOOMINGDALE, Vice-Chairman

McDOUGALL HAWKES

A. J. SHAMBERG

WILLIAM W. MILLS

Commissioner of Plant and Structures of New  
York City

ROY G. FINCH

State Engineer and Surveyor

PAUL WINDELS, Counsel

MORRIS M. FROHLICH, Secretary

**NEW JERSEY INTERSTATE BRIDGE AND  
TUNNEL COMMISSION**

THEODORE BOETTGER, Chairman

JOHN B. KATES, Vice-Chairman

THOMAS J. S. BARLOW

JOHN F. BOYLE

ISAAC FERRIS

WELLER H. NOYES

ROBERT S. SINCLAIR

FRANK L. SUPLEE

ROBERT CAREY, Counsel

E. MORGAN BARRADALE, Secretary

OLE SINGSTAD

Chief Engineer





M. B. Brown Printing & Binding Co.,  
37-41 Chambers Street, N. Y.



## LIST OF CONTRACT DRAWINGS

### Contract No. 14

#### PART No. 1 OF 3 PARTS

1. Plan and Profile.
2. Land Ventilation Building, New Jersey—Location Plan.
3. Land Ventilation Building, New Jersey—Boiler Room, Plan and Sections.
4. Land Ventilation Building, New Jersey—Ground Floor Plan.
5. Land Ventilation Building, New Jersey—Mezzanine Floor Plan.
6. Land Ventilation Building, New Jersey—First Floor Plan.
7. Land Ventilation Building, New Jersey—Second Floor Plan.
8. Land Ventilation Building, New Jersey—Third Floor Plan.
9. Land Ventilation Building, New Jersey—Fourth Floor Plan.
10. Land Ventilation Building, New Jersey—Roof Plan.
11. Land Ventilation Building, New Jersey—North Elevation and East Elevation.
12. Land Ventilation Building, New Jersey—South Elevation and West Elevation.
13. Land Ventilation Building, New Jersey—Section AA.
14. Land Ventilation Building, New Jersey—Section BB.
15. Land Ventilation Building, New Jersey—Section CC.
16. Land Ventilation Building, New Jersey—Section DD.
17. Land Ventilation Building, New Jersey—Section EE.
18. Land Ventilation Building, New Jersey—Section FF.
19. Land Ventilation Building, New Jersey—Section GG, West Half.
20. Land Ventilation Building, New Jersey—Section GG, East Half.
21. Land Ventilation Building, New Jersey—Section HH, West Half.
22. Land Ventilation Building, New Jersey—Section HH, East Half.
23. Land Ventilation Building, New Jersey—Sections of West Stairs.
24. Land Ventilation Building, New Jersey—Sections of East Stairs.
25. Land Ventilation Building, New Jersey—Stair, Door and Elevator Details.
26. Land Ventilation Building, New Jersey—Exterior Wall Details.
27. Land Ventilation Building, New Jersey—Louvred Window Details.
28. Land Ventilation Building, New Jersey—Steel and Gunitite Partition Details.
29. Land Ventilation Building, New Jersey—Removable Steel Partitions.
30. Land Ventilation Building, New Jersey—Schedules.
31. Land Ventilation Building, New Jersey—Plumbing and Standpipe Diagrams.
32. Land Ventilation Building, New Jersey—Steel Framing Ground Floor Plan.
33. Land Ventilation Building, New Jersey—Steel Framing Ground Floor Mezzanine Plan El. 315.66.
34. Land Ventilation Building, New Jersey—Steel Framing Ground Floor Mezzanine Plan El. 329.0.
35. Land Ventilation Building, New Jersey—Steel Framing First Floor Plan.
36. Land Ventilation Building, New Jersey—Steel Framing Second Floor Plan.
37. Land Ventilation Building, New Jersey—Steel Framing Third Floor Plan.
38. Land Ventilation Building, New Jersey—Steel Framing Fourth Floor Plan.
39. Land Ventilation Building, New Jersey—Steel Framing Roof Plan.
40. Land Ventilation Building, New Jersey—Steel Framing East Stairway.
41. Land Ventilation Building, New Jersey—Steel Framing West Stairway.
42. Land Ventilation Building, New Jersey—Steel Framing Details of Ground Floor Connections.
43. Land Ventilation Building, New Jersey—Steel Framing Girder Schedule and Miscellaneous Details.



44. Land Ventilation Building, New Jersey—Steel Framing Eaves' Stacks and Wind Bracing.
45. Land Ventilation Building, New Jersey—Steel Framing Column Schedule.
46. Land Ventilation Building, New Jersey—Electrical Conduit System Mezzanine Floor Plan.
47. Land Ventilation Building, New Jersey—Electrical Conduit System First Floor Plan in Concrete Slab.
48. Land Ventilation Building, New Jersey—Electrical Conduit System First Floor Plan Above Concrete Slab.
49. Land Ventilation Building, New Jersey—Electrical Conduit System Second Floor Plan.
50. Land Ventilation Building, New Jersey—Electrical Conduit System Third Floor Plan.
51. Land Ventilation Building, New Jersey—Electrical Conduit System Fourth Floor Plan.
52. Land Ventilation Building, New Jersey—Electrical Conduit System Roof Plan.
53. Land Ventilation Building, New Jersey—Electrical Conduit System Mezzanine and First Floor Conduit Sections.
54. Land Ventilation Building, New Jersey—Electrical Conduit System Duct Runs in East Stairway.
55. Land Ventilation Building, New Jersey—Electrical Conduit System Duct Runs in West Stairway.
56. Land Ventilation Building, New Jersey—Electrical Conduit System East and West Stairways.
57. Electrical Conduit System Cast-Iron Pull Boxes.

#### PART No. 2 OF 3 PARTS

58. River Ventilation Building, New Jersey—Location Plan.
59. River Ventilation Building, New Jersey—Pier Deck Floor Plan.
60. River Ventilation Building, New Jersey—Pier Deck Mezzanine Floor Plan.
61. River Ventilation Building, New Jersey—First Floor Plan.
62. River Ventilation Building, New Jersey—Second Floor Plan.
63. River Ventilation Building, New Jersey—Third Floor Plan.
64. River Ventilation Building, New Jersey—Fourth Floor Plan.
65. River Ventilation Building, New Jersey—Roof Plan.
66. River Ventilation Building, New Jersey—East Elevation and North Elevation.
67. River Ventilation Building, New Jersey—West Elevation and South Elevation.
68. River Ventilation Building, New Jersey—Section AA South Half.
69. River Ventilation Building, New Jersey—Section AA North Half.
70. River Ventilation Building, New Jersey—Section BB South Half.
71. River Ventilation Building, New Jersey—Section BB North Half.
72. River Ventilation Building, New Jersey—Section CC.
73. River Ventilation Building, New Jersey—Section DD.
74. River Ventilation Building, New Jersey—Section EE.
75. River Ventilation Building, New Jersey—Section FF.
76. River Ventilation Building, New Jersey—Longitudinal Section on Center Line, South Half.
77. River Ventilation Building, New Jersey—Longitudinal Section on Center Line, North Half.
78. River Ventilation Building, New Jersey—Exterior Details.
79. River Ventilation Building, New Jersey—Louvred Window Details.
80. River Ventilation Building, New Jersey—Removable Steel Partitions.
81. River Ventilation Building, New Jersey—Schedules.
82. River Ventilation Building, New Jersey—Standpipe and Plumbing Diagrams.
83. River Ventilation Building, New Jersey—Steel Framing Grillage Plan.
84. River Ventilation Building, New Jersey—Steel Framing Pier Deck Floor Plan.
85. River Ventilation Building, New Jersey—Steel Framing Pier Deck Mezzanine Floor Plan.
86. River Ventilation Building, New Jersey—Steel Framing First Floor Plan.
87. River Ventilation Building, New Jersey—Steel Framing Second Floor Plan.



88. River Ventilation Building, New Jersey—Steel Framing Third Floor Plan.
89. River Ventilation Building, New Jersey—Steel Framing Fourth Floor Plan.
90. River Ventilation Building, New Jersey—Steel Framing Roof Plan.
91. River Ventilation Building, New Jersey—Steel Framing Roof Plan, Upper Level.
92. River Ventilation Building, New Jersey—Steel Framing North Stairs.
93. River Ventilation Building, New Jersey—Steel Framing South Stairs.
94. River Ventilation Building, New Jersey—Steel Framing Wind Bracing.
95. River Ventilation Building, New Jersey—Steel Framing Girder Details.
96. River Ventilation Building, New Jersey—Steel Framing Girder Schedule and Details.
97. River Ventilation Building, New Jersey—Steel Framing Column Schedule.
98. River Ventilation Building, New Jersey—Electrical Conduit System Pier Deck Mezzanine Floor Plan.
99. River Ventilation Building, New Jersey—Electrical Conduit System First Floor Plan in Concrete Slab.
100. River Ventilation Building, New Jersey—Electrical Conduit System First Floor Plan above Concrete Slab.
101. River Ventilation Building, New Jersey—Electrical Conduit System Second Floor Plan.
102. River Ventilation Building, New Jersey—Electrical Conduit System Third Floor Plan.
103. River Ventilation Building, New Jersey—Electrical Conduit System Fourth Floor Plan.
104. River Ventilation Building, New Jersey—Electrical Conduit System Roof Plan.
105. River Ventilation Building, New Jersey—Electrical Conduit System, First Floor Conduit Sections.
106. River Ventilation Building, New Jersey—Electrical Conduit System, Duct Runs from Shafts to First Floor.
107. River Ventilation Building, New Jersey—Electrical Conduit System, Duct North and South Stairways.
108. Details of Dampers.
109. Damper Operating Mechanism.
110. Air Lock Inspection Doors.

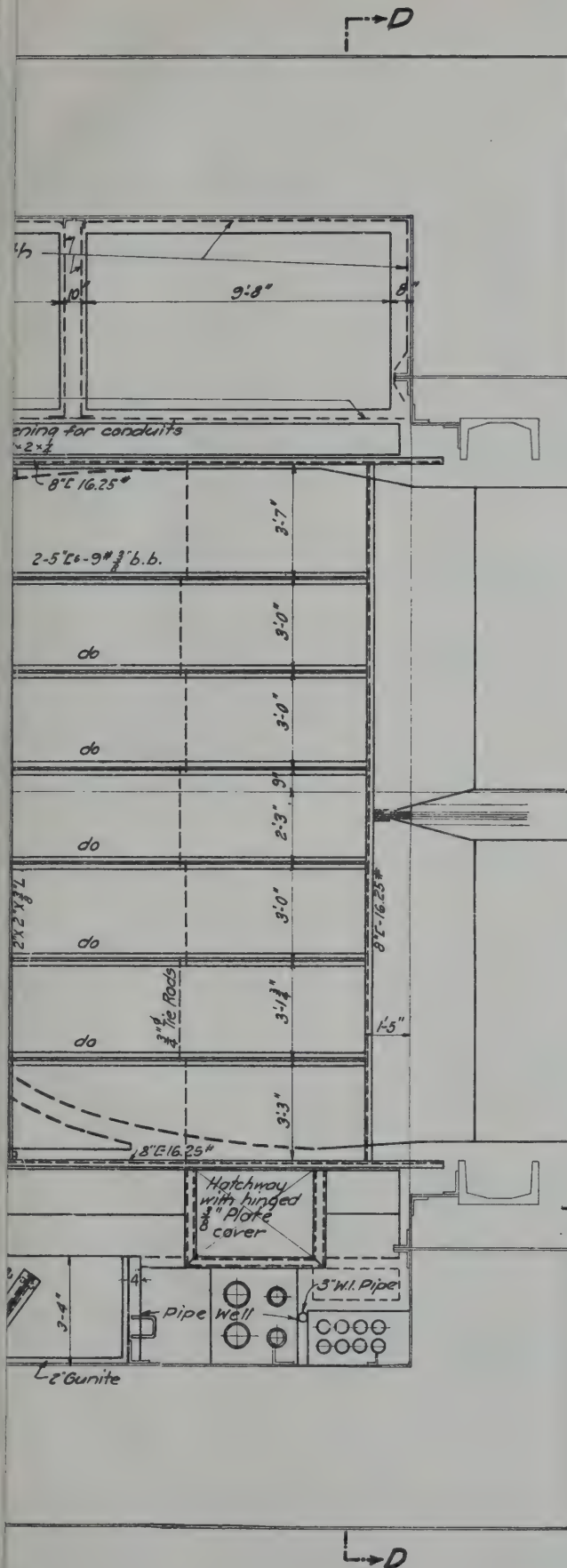
#### PART No. 3 OF 3 PARTS

111. Interior North Land Shaft, New Jersey, Sections AA and BB.
112. Interior North Land Shaft, New Jersey, Sections CC and DD.
113. Interior North Land Shaft, New Jersey, Sections EE and FF.
114. Interior North Land Shaft, New Jersey, Sections GG, HH and NN.
115. Interior North Land Shaft, New Jersey, Sections JJ, KK, LL and MM.
116. Interior North Land Shaft, New Jersey, Details of Duct Frames.
117. Interior North Land Shaft, New Jersey, Electrical Conduit System, Plan AA, Plan BB, Sections FF and GG.
118. Interior North Land Shaft, New Jersey, Electrical Conduit System, Sections CC, DD and EE.
119. Interior South Land Shaft, New Jersey, Sections AA and BB.
120. Interior South Land Shaft, New Jersey, Sections CC and DD.
121. Interior South Land Shaft, New Jersey, Sections EE and FF.
122. Interior South Land Shaft, New Jersey, Sections GG, MM and NN.
123. Interior South Land Shaft, New Jersey, Sections HH, JJ, KK and LL.
124. Interior South Land Shaft, New Jersey, Details of Duct Frames.
125. Interior South Land Shaft, New Jersey, Electrical Conduit System, Plans AA, BB and CC.
126. Interior South Land Shaft, New Jersey, Electrical Conduit System, Sections DD, EE and FF.
127. Interior River Shafts, New Jersey, Section AA, North Shaft.
128. Interior River Shafts, New Jersey, Section BB, South Shaft.
129. Interior River Shafts, New Jersey, Section CC, North Shaft.
130. Interior River Shafts, New Jersey, Section DD, South Shaft.
131. Interior River Shafts, New Jersey, Section EE and Key Plan.



132. Interior River Shafts, New Jersey, Section FF.
133. Interior River Shafts, New Jersey, Section GG.
134. Interior River Shafts, New Jersey, Section HH.
135. Interior River Shafts, New Jersey, Section II.
136. Interior River Shafts, New Jersey, Section JJ.
137. Interior River Shafts, New Jersey, Section KK.
138. Interior North River Shaft, New Jersey, Electrical Conduit System, Sections FF, GG, HH, II, JJ, KK and LL.
139. Interior North River Shaft, New Jersey, Electrical Conduit System, Sections AA, BB, CC, DD and EE.
140. Interior South River Shaft, New Jersey, Electrical Conduit System, Sections AA, BB, CC, DD and EE.
141. Interior South River Shaft, New Jersey—Electrical Conduit System, Sections FF, GG, HH, II, JJ and KK.
142. Interior River Shafts, New Jersey—Electrical Conduit System, Lighting System.
143. Electrical Conduit System, Cast Iron Light Box.
144. Area Available for Contractor's Use.





### GENERAL NOTES

Use  $\frac{7}{8}$ " rivets unless otherwise specified.

Open holes  $\frac{15}{16}$ " unless otherwise specified.

0.3. Legs of Angles etc projecting from inner skin plate to be burned off, to give at least 1" concrete or gunite cover. 2" and 4" concrete or gunite cover on shaft walls is to be reinforced with .075" per ft width wire mesh welded to shaft walls except where special clips are provided.

Where special clips are riveted to skin plates the reinforcing wire mesh is to be wired to them.

Beam wrapper is to be used on all floor beams, pairs of L's and L's.

Minimum distance from G.I. Conduits to steel work is to be 6" unless otherwise specified.

"Rgh" Denotes surface of concrete is to be roughened for securing tile.

Interior surfaces of all Air Ducts, finished.

Work under this Contract is shown by heavy lines.

T.B. Denotes  $\frac{7}{8}$ " Top bolts.

(20) Denotes number of  $\frac{15}{16}$ " holes to be drilled in field. Exposed burned surfaces to be smoothed.

Air Duct bracing to be covered with  $\frac{1}{2}$ " gunite on beam wrapper where not otherwise specified.

Inner Skin plate to be covered with 2" gunite on .075" per ft width wire mesh unless otherwise specified.

### ~Reference Notes~

For Sections C-C & D-D see Contract Dwg. No. 112, File No. 1-14

For " E-E & F-F " " " " 113, " " 1-14

For " G-G, H-H & N-N " " " " 114, " " 1-14

For " J-J, K-K, L-L & M-M " " " " 115, " " 1-14

NEW YORK STATE  
BRIDGE & TUNNEL COMMISSION  
AND  
NEW JERSEY INTERSTATE  
BRIDGE & TUNNEL COMMISSION  
THE HOLLAND TUNNEL  
CONTRACT No. 14  
CONTRACT DRAWING No. III

SCALE: 0 1 2 3 FT.

DATE: OCTOBER 20, 1929

*Ole Singstad*  
CHIEF ENGINEER

FILE NO. 1-14

M. B. Brown Printing & Binding Co.,  
37-41 Chambers Street, N. Y.

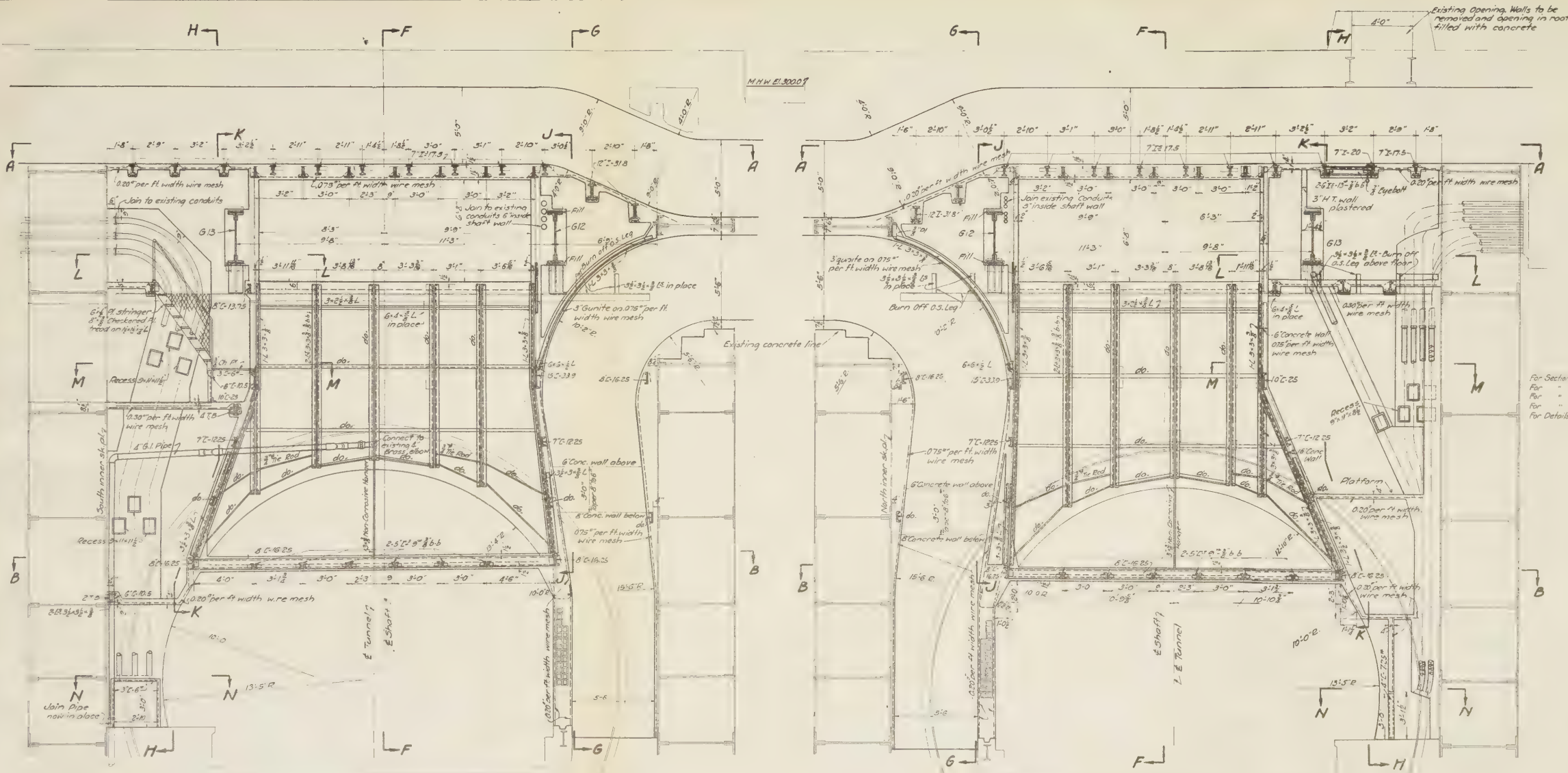












SECTION C-C

SECTION D-D

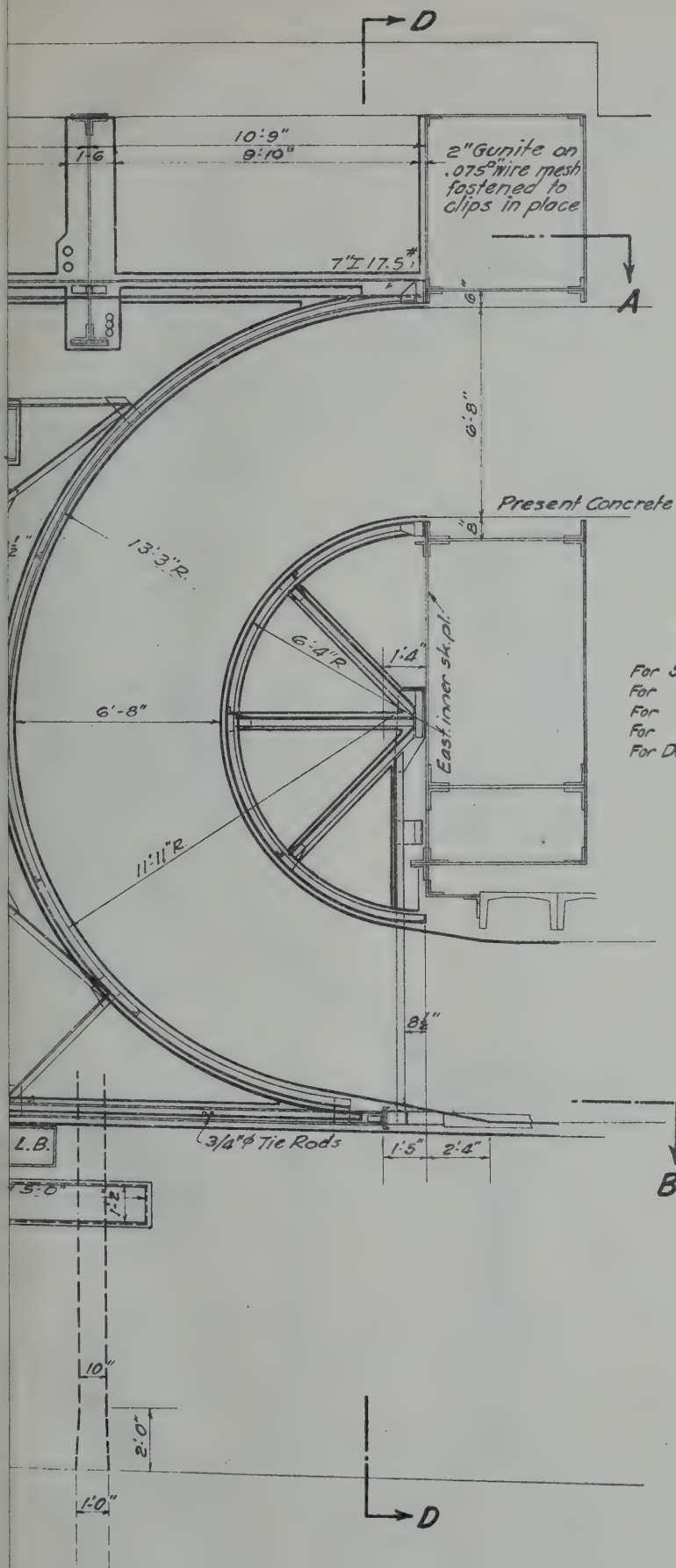
INTERIOR NORTH LAND SHAFT NEW JERSEY

Reference Notes -  
 For Sections A-A & S-S see Contract Draw. No. 111, File No. 1-14  
 For " E-E & F-F " " " " 113 " " 1-14  
 For " G-G, H-H & N-N " " " 114 " " 1-14  
 For " J-J, K-K, L-L & M-M " " " 115 " " 1-14  
 For Details of Duct Frames " " " 116 " " 1-14

NEW YORK STATE  
 BRIDGE & TUNNEL COMMISSION  
 AND  
 NEW JERSEY INTERSTATE  
 BRIDGE & TUNNEL COMMISSION  
 THE HOLLAND TUNNEL  
 CONTRACT No. 14  
 CONTRACT DRAWING No. 112

SCALE: 1" = 10' FT.  
 DATE: OCTOBER 20, 1929  
 O. S. S. S. S.  
 CIVIL ENGINEER

Drawn by: [Signature]  
 Checked by: [Signature]  
 (Number of sheets)



-Reference Notes-

For Sections A-A & B-B see Contract Dwg. No. 111, File No. 1-14

For " C-C & D-D " " " 112, " " 1-14

For " G-G, H-H & N-N " " " 114, " " 1-14

For " J-J, K-K, L-L & M-M " " " 115, " " 1-14

For Details of Dust Frames " " " 116, " " 1-14

NEW YORK STATE  
BRIDGE & TUNNEL COMMISSION  
AND  
NEW JERSEY INTERSTATE  
BRIDGE & TUNNEL COMMISSION  
THE HOLLAND TUNNEL  
CONTRACT No. 14  
CONTRACT DRAWING No. 113

SCALE: 0 1 2 3 FT.

DATE: OCTOBER 20, 1925

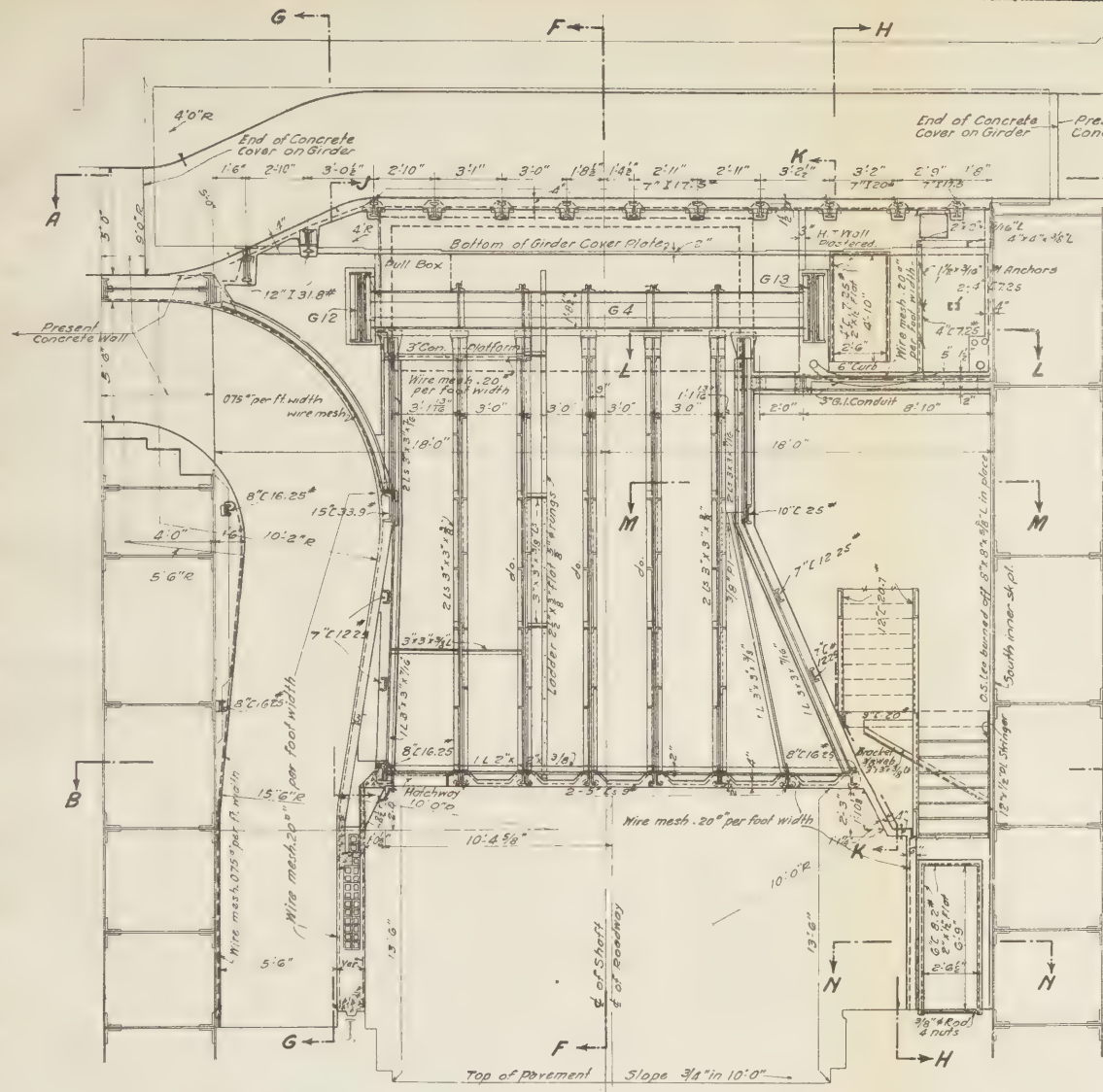
*Ch. Singstad*  
CHIEF ENGINEER

FILE NO. 1-14

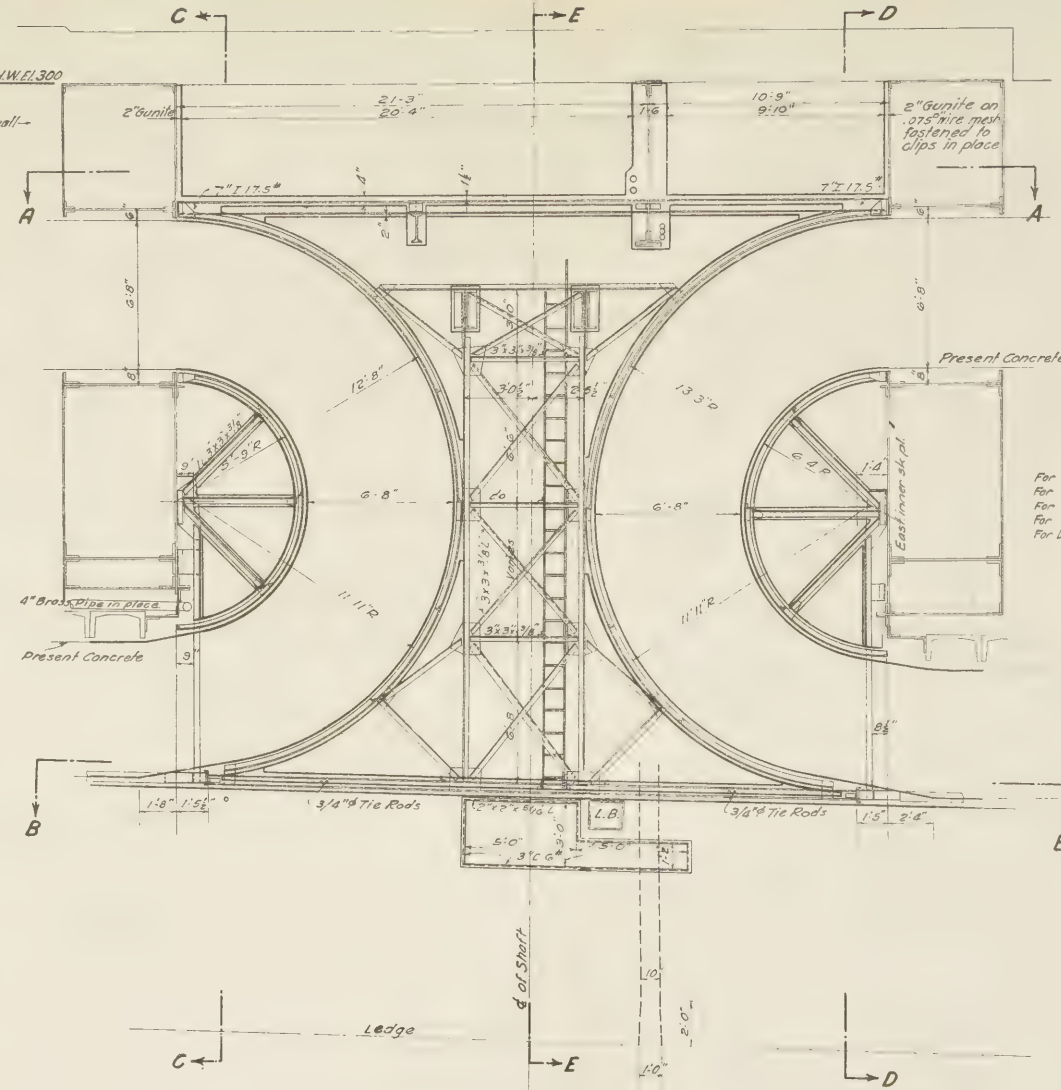
M. B. Brown Printing & Binding Co.,  
37-41 Chambers Street, N. Y.

DRAW  
CHECK





SECTION E-E



SECTION F-F

Reference Notes—  
 For Sections A-A & B-B see Contract Dwg. No. 111, File No. 1-14  
 For " C-C & D-D " " " " 112, " 1-14  
 For " G-G, H-H, I-I, J-J, K-K, L-L, M-M " " " 113, " 1-14  
 For Details of Duct Frames " " " 116, " 1-14

DESIGNED BY  
 CHECKED BY  
 8.10.2.8 P.K.

# INTERIOR NORTH LAND SHAFT NEW JERSEY

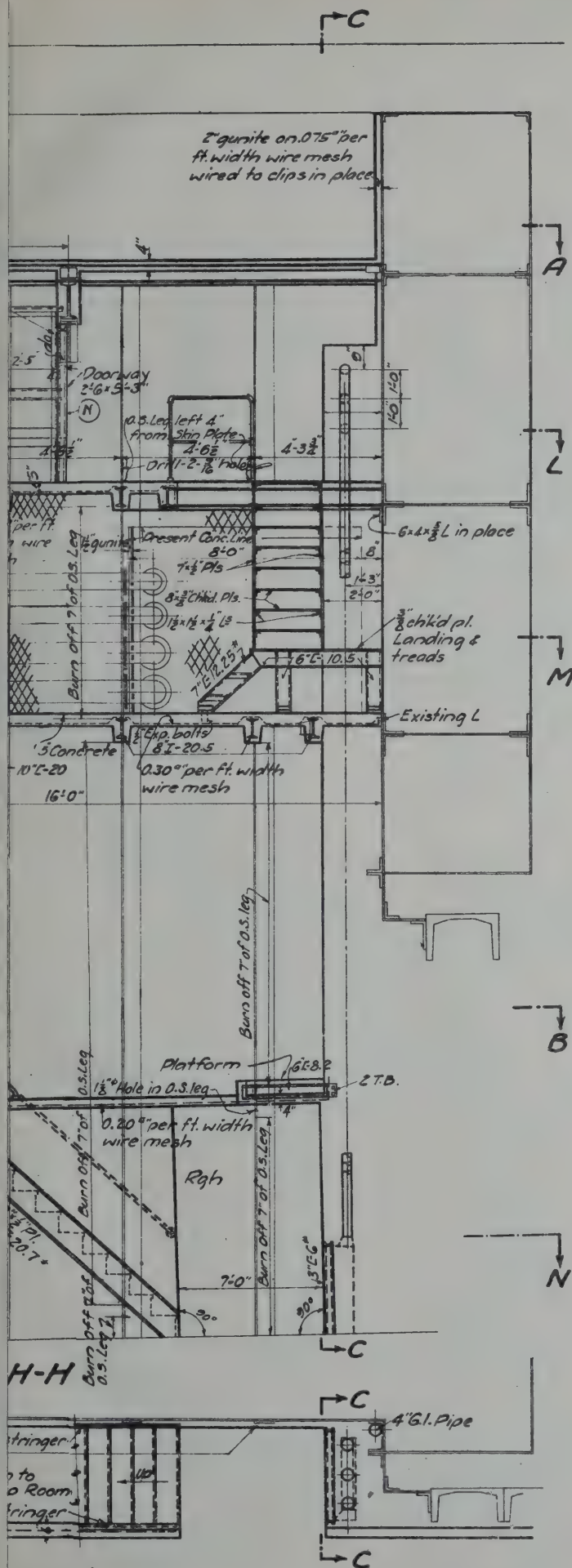
NEW YORK STATE  
 BRIDGE & TUNNEL COMMISSION  
 AND  
 NEW JERSEY INTERSTATE  
 BRIDGE & TUNNEL COMMISSION  
 THE HOLLAND TUNNEL  
 CONTRACT No. 14  
 CONTRACT DRAWING No. 113

SCALE 1" = 10' 0"

DATE OCTOBER 20, 1928

FILE NO. 1-14

M. B. Brown Printing & Binding Co.,  
 37-41 Chambers Street, N. Y.



~Reference Notes~  
 For Sections A-A & B-B see Contract Dwg. No. 111, File No. 1-14  
 For " C-C & D-D " " " " 112, " " 1-14  
 For " E-E & F-F " " " " 113, " " 1-14  
 For " J-J, K-K, L-L & M-M " " " " 115, " " 1-14

NEW YORK STATE  
 BRIDGE & TUNNEL COMMISSION  
 AND  
 NEW JERSEY INTERSTATE  
 BRIDGE & TUNNEL COMMISSION  
 THE HOLLAND TUNNEL  
 CONTRACT No. 14  
 CONTRACT DRAWING No. 114

SCALE: 1" = 1'0"

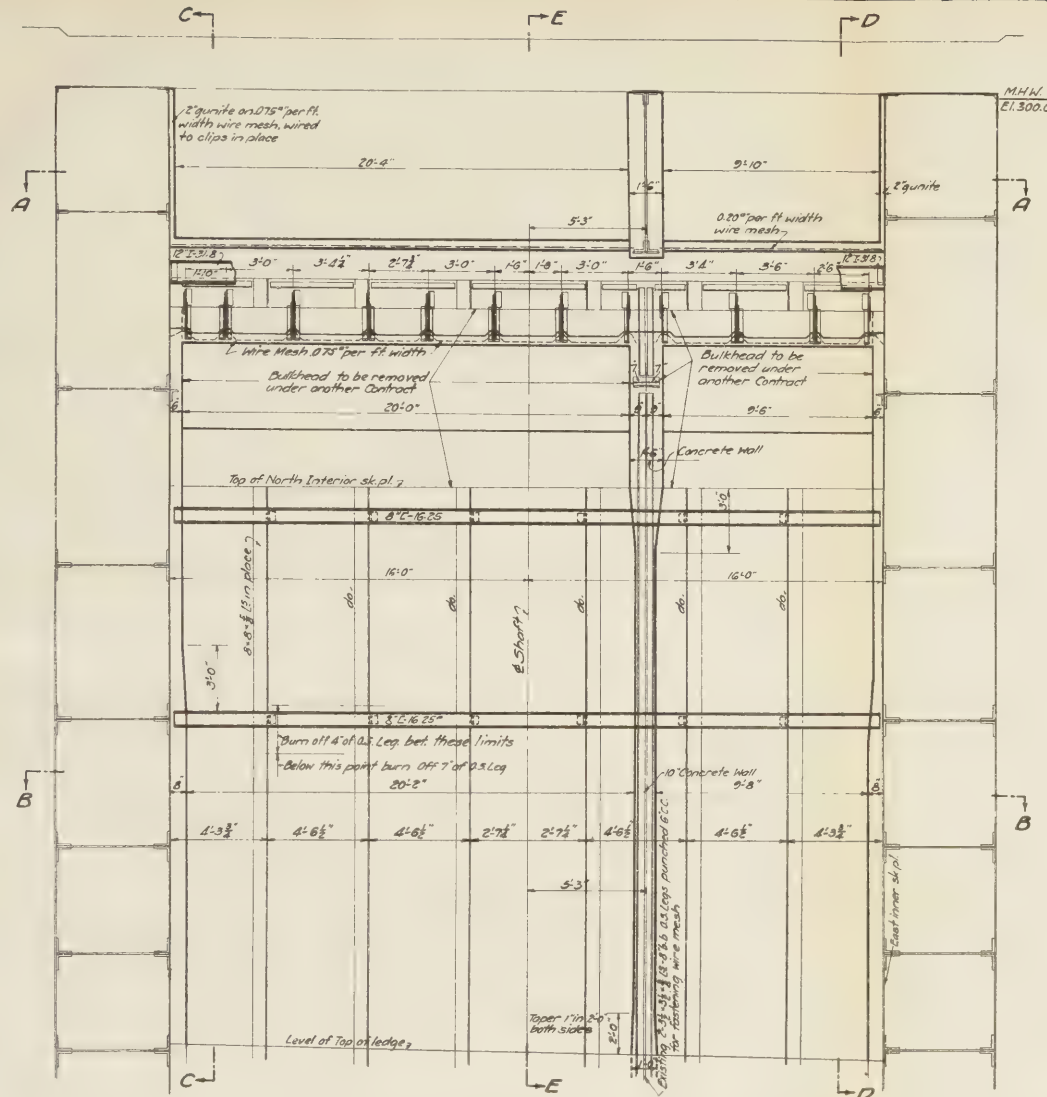
DATE: OCTOBER 20, 1928

*Ch. Simstad*  
 CHIEF ENGINEER

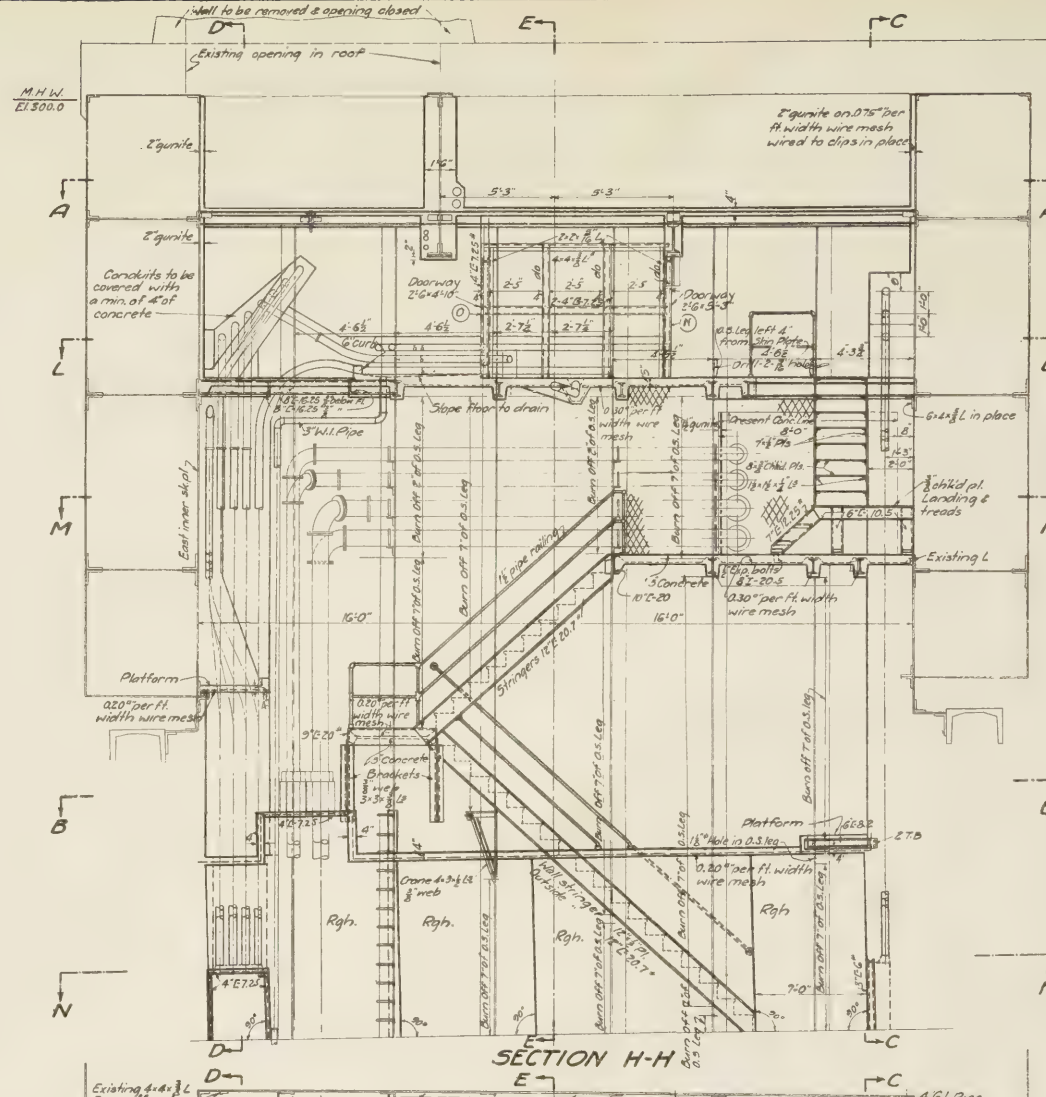
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 CHECKED





SECTION G-G



SECTION H-H

SECTION N-N

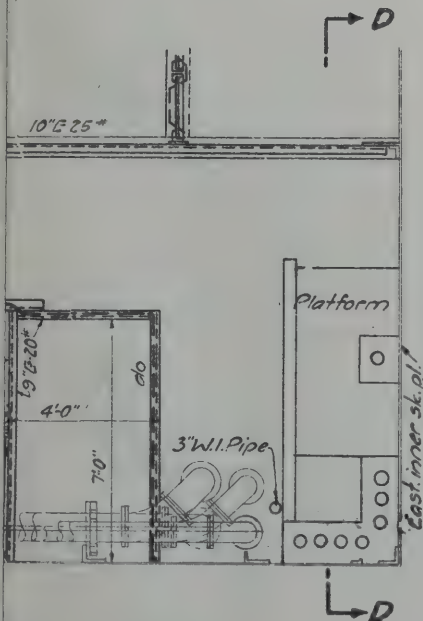
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 For Sections A-A & B-B see Contract Dwg. No. 111, File No. 1-14  
 For " C-C & D-D " " " 112, " " 1-14  
 For " E-E & F-F " " " 113, " " 1-14  
 For " J-J, K-K, L-L & M-M " " " 115, " " 1-14

NEW YORK STATE  
 BRIDGE & TUNNEL COMMISSION  
 AND  
 NEW JERSEY INTERSTATE  
 BRIDGE & TUNNEL COMMISSION  
**THE HOLLAND TUNNEL**  
 CONTRACT NO. 14  
 CONTRACT DRAWING NO. 114

DATE: OCTOBER 20, 1978  
 Chief Engineer  
 FILE NO. 1-14

DESIGNED BY: C75  
 CHECKED BY: S.C.R. 3.P.K.

INTERIOR NORTH LAND SHAFT NEW JERSEY



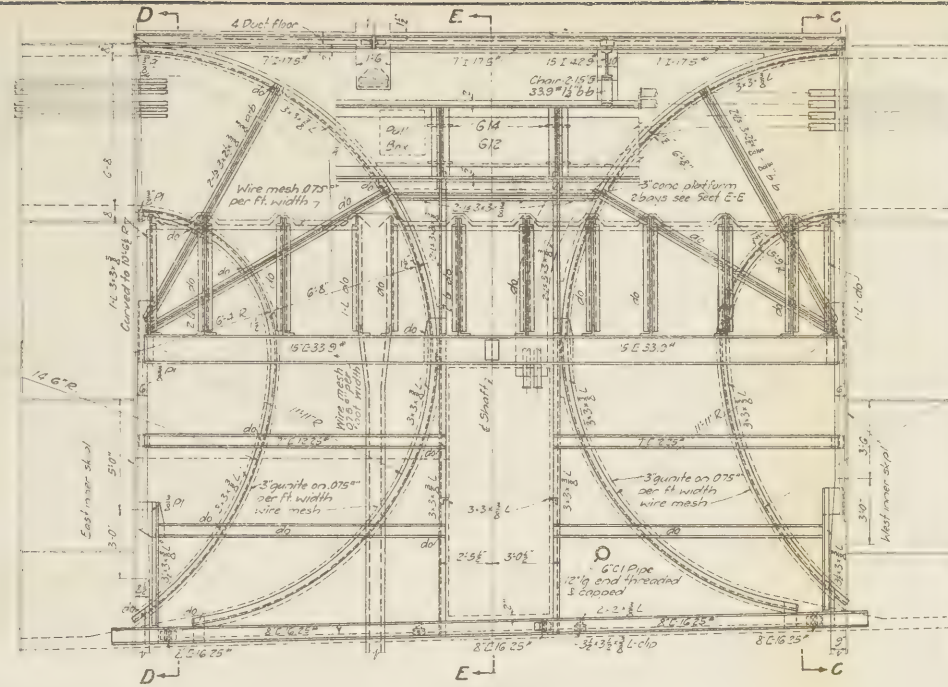
Reference Notes:

For Sections A-A & B-B	see Contract Dwg. No. III, File No. I-14
For " C-C & D-D	" " " " 112, " " 1-14
For " E-E & F-F	" " " " 113, " " 1-14
For " G-G, H-H & N-N	" " " " 114 " " 1-14
For Details of Duct Trusses	" " " " 116 " " 1-14

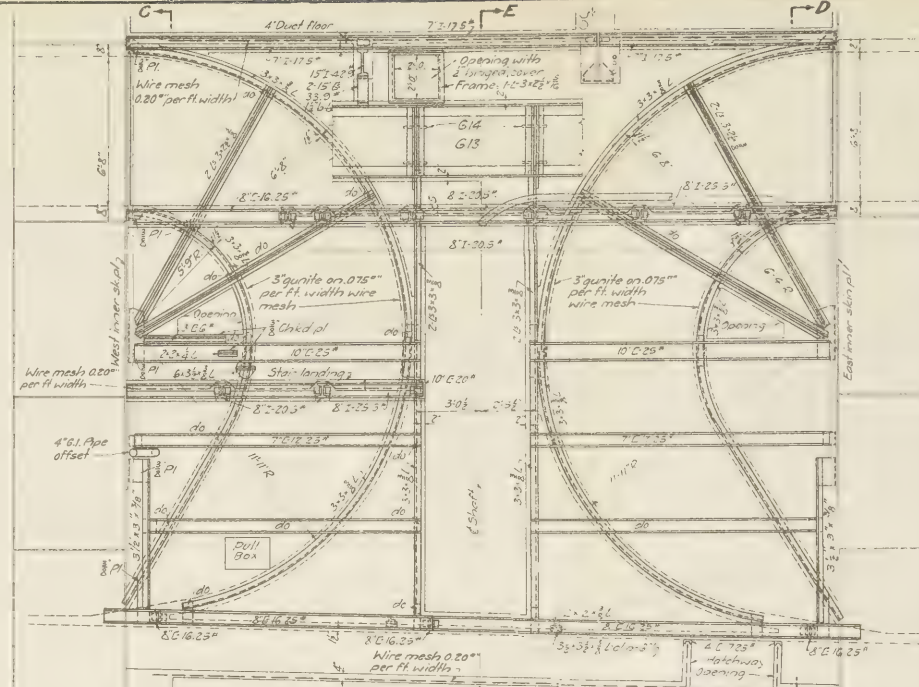
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FILE NO. 1-14

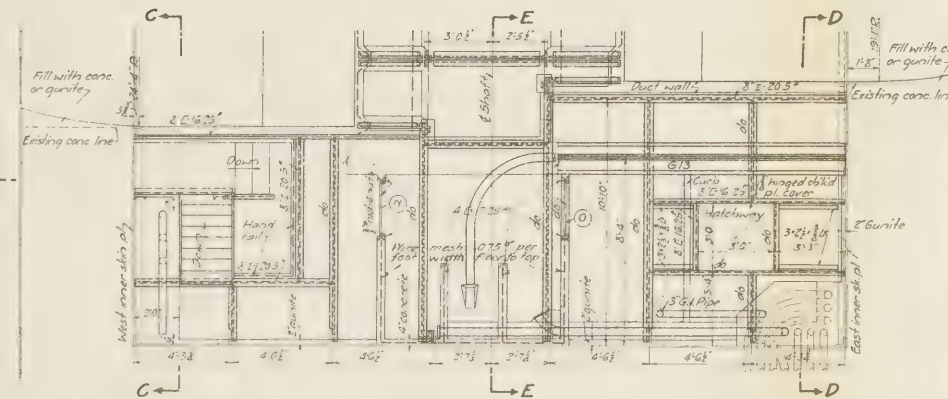




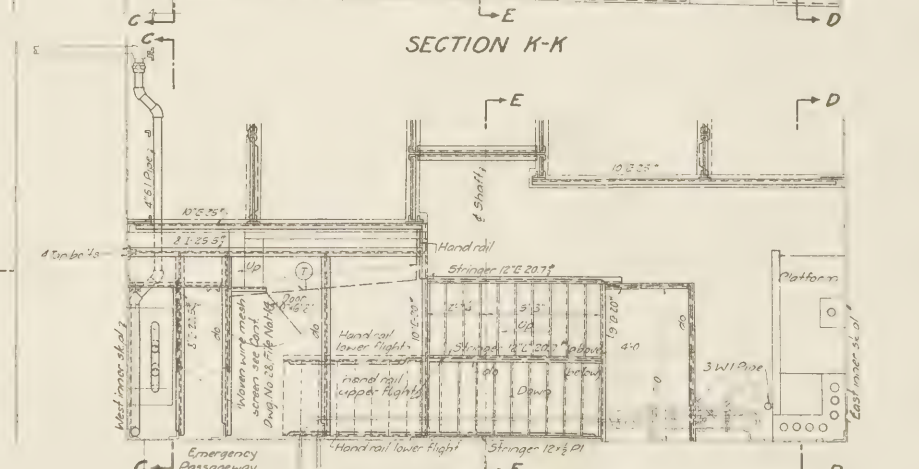
SECTION J-J



SECTION K-K



SECTION L-L



SECTION M-M

# INTERIOR NORTH LAND SHAFT NEW JERSEY

-Reference Notes-  
 For Sections A-A & B-B see Contract Dwg. No. 111, File No. 1-14  
 For " C-C & D-D " " " 112 " 1-14  
 For " E-E & F-F " " " 113 " 1-14  
 For " G-G, H-H & I-I " " " 114 " 1-14  
 For Details of Duct Frames " " " 116 " 1-14

NEW YORK STATE  
 BRIDGE & TUNNEL COMMISSION  
 AND  
 NEW JERSEY INTERSTATE  
 BRIDGE & TUNNEL COMMISSION  
 THE HOLLAND TUNNEL  
 CONTRACT NO. 14  
 CONTRACT DRAWING NO. 115

SCALE 1" = 12' DATE OCTOBER 20, 1928

FILE NO. 1-14

DRAWN BY OTH  
 CHECKED BY J.M. 92X

THE HOLLAND TUNNEL  
 CONTRACT NO. 14  
 CONTRACT DRAWING NO. 115

M. D. Brown Printing & Binding Co.,  
 37-41 Chambers Street, N. Y.

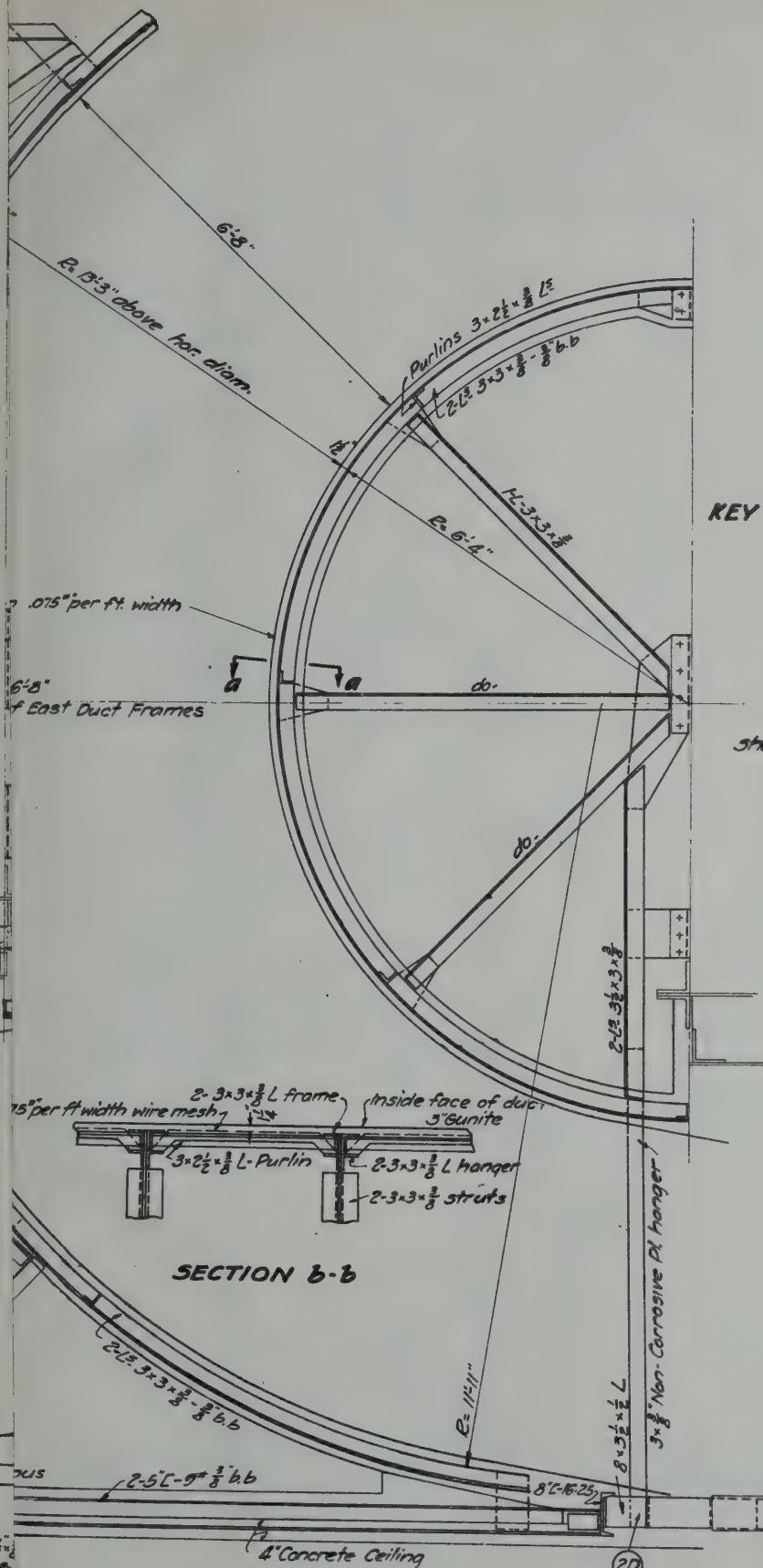
NORTH INNER SKIN PLATE

No. 1 W	No. 1	No. 1 E
2 W	2	2 E
3 W	3	3 E
4 W	4	4 E
5 W	5	5 E
6 W	6	6 E
7 W	7	7 E

KEY PLAN OF DUCT FRAME NUMBERING

REFERENCE NOTES

For Horizontal & Vertical sections of  
shaft interior see Contract  
Dwgs Nos. 111, 115 incl. File No. 1-14



DUCT FRAMES Nos. 4 & 4E

NEW YORK STATE  
BRIDGE & TUNNEL COMMISSION  
AND  
NEW JERSEY INTERSTATE  
BRIDGE & TUNNEL COMMISSION  
THE HOLLAND TUNNEL  
CONTRACT No. 14  
CONTRACT DRAWING NO. 116

SCALE: 0 1 2 FT.  
0 1 2 FT.

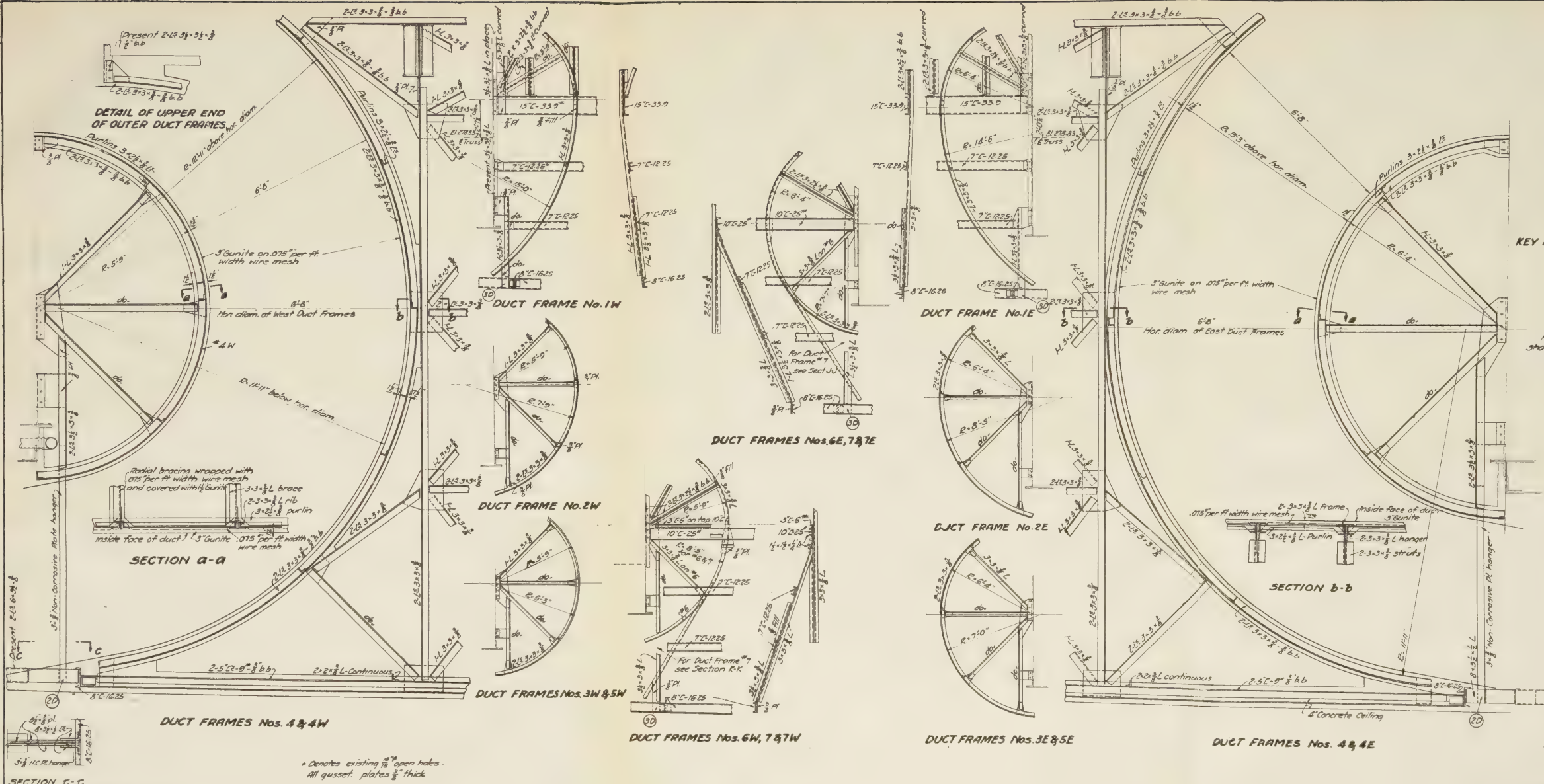
DATE: OCTOBER 20, 1929

Ok. Suptd.  
CHIEF ENGINEER

FILE NO. 1-14

DRAWN BY  
CHECKED BY





NORTH INNER SKIN PLATE		
No. 1 W	No. 1	No. 1 E
2 W	2	2 E
3 W	3	3 E
4 W	4	4 E
5 W	5	5 E
6 W	6	6 E
7 W	7	7 E

KEY PLAN OF DUCT FRAME NUMBERING

REFERENCE NOTES

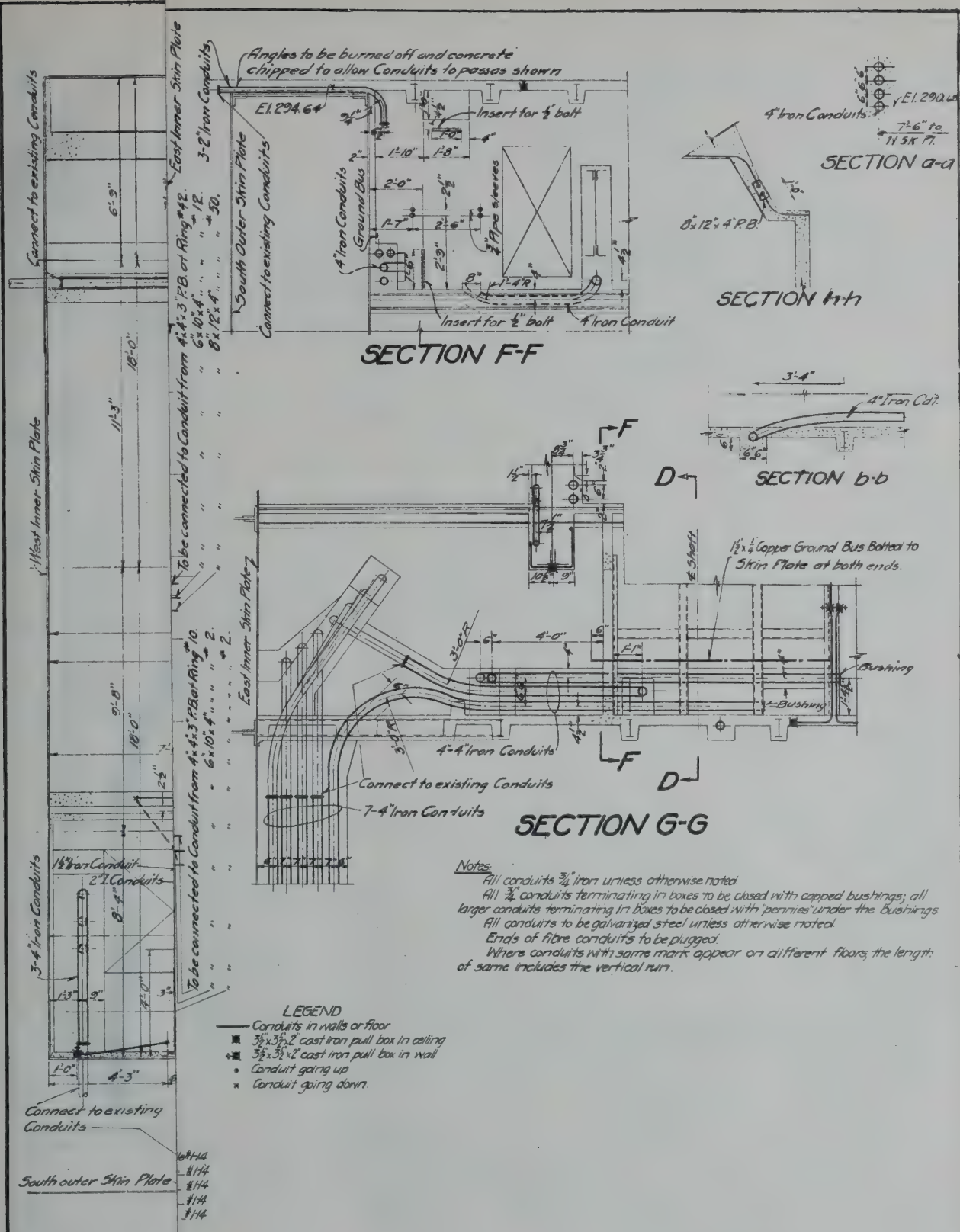
For Horizontal & Vertical sections of shaft interior see Contract Dwg. Nos. 111, 115 incl. File No. 1-14

NEW YORK STATE  
BRIDGE & TUNNEL COMMISSION  
AND  
NEW JERSEY INTERSTATE  
BRIDGE & TUNNEL COMMISSION  
THE HOLLAND TUNNEL  
CONTRACT No. 14  
CONTRACT DRAWING No. 116

SCALE: 1" = 10' FT.

DATE: OCTOBER 30, 1925

DESIGNED BY: C. J. P.  
CHECKED BY: G. H. R. P. P.



NEW YORK STATE  
BRIDGE & TUNNEL COMMISSION  
AND  
NEW JERSEY INTERSTATE  
BRIDGE & TUNNEL COMMISSION  
THE HOLLAND TUNNEL  
CONTRACT No. 14  
CONTRACT DRAWING No. 117

L. B. Stillwell  
CONSULTING ENGINEER

SCALE: 0 1 2 3 4 FEET DATE OCTOBER 29, 1925

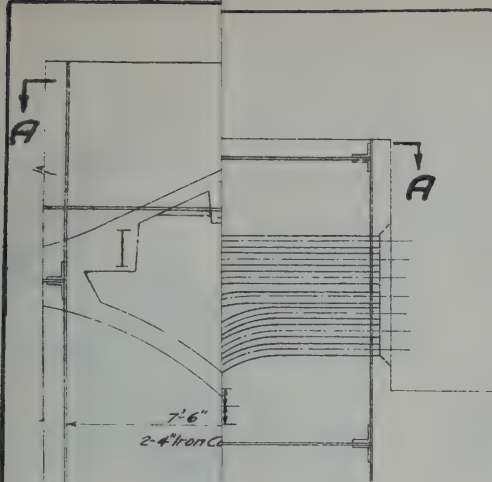
Chief Engineer

FILE NO. F-16

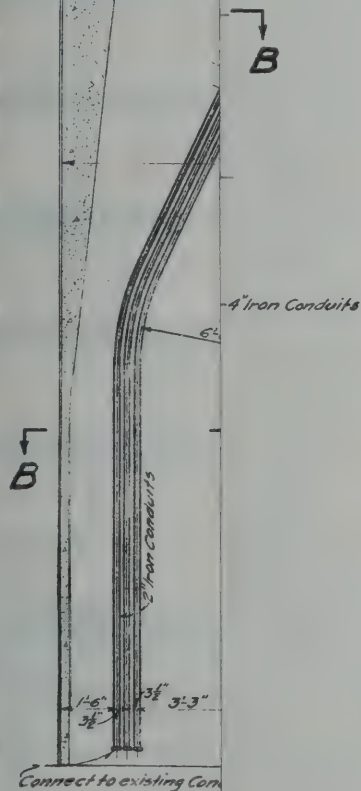
M. B. Brown Printing & Binding Co.,  
37-41 Chambers Street, N. Y.



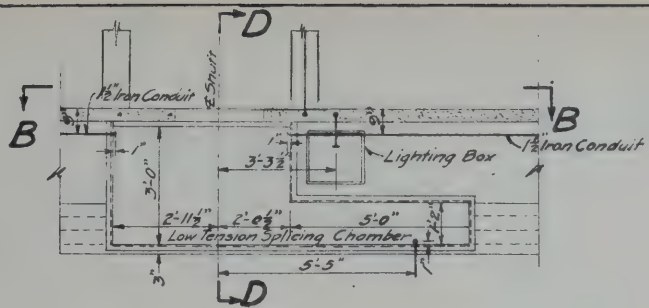




Connect to existing Conduits



Connect to existing Conduits



SECTION F-F

#### REFERENCE DWGS

For Interior Details of North Land Shaft, New Jersey, See Contract Dwg #111-116 File #1-14  
 For Plans A-A and B-B and Section G-G ----- #117 ----- #1-14  
 For Details of Cast Iron Pull Boxes ----- #57 ----- #1-14  
 For Typical Detail of Street Steel Pull Box ----- #105 ----- #1-14  
 For Lighting Box ----- #143 ----- #1-14

#### Notes

- All conduits  $\frac{3}{4}$  iron unless otherwise noted
- All  $\frac{3}{4}$  conduits terminating in boxes to be closed with capped bushings; all larger conduits terminating in boxes to be closed with pennies under the bushings.
- All conduits to be galvanized steel unless otherwise noted
- Ends of fibre conduits to be plugged.
- Where conduits with same mark appear on different floors, the length of same includes the vertical run.

#### LEGEND

- Conduits in walls or floor
- $\blacksquare$   $3\frac{1}{2} \times 3\frac{1}{2} \times 2$  Cast Iron Pull Box in Ceiling
- $\blacktriangle$   $3\frac{1}{2} \times 3\frac{1}{2} \times 2$  Cast Iron Pull Box in Wall
- Conduit going up
- \* Conduit going down

NEW YORK STATE  
 BRIDGE & TUNNEL COMMISSION  
 AND  
 NEW JERSEY INTERSTATE  
 BRIDGE & TUNNEL COMMISSION  
 THE HOLLAND TUNNEL  
 CONTRACT No. 14  
 CONTRACT DRAWING No. 118

L. B. Stillwell  
 CONSULTING ENGINEER

SCALE: 0 1 2 3 4 FEET

DATE OCTOBER 20, 1925

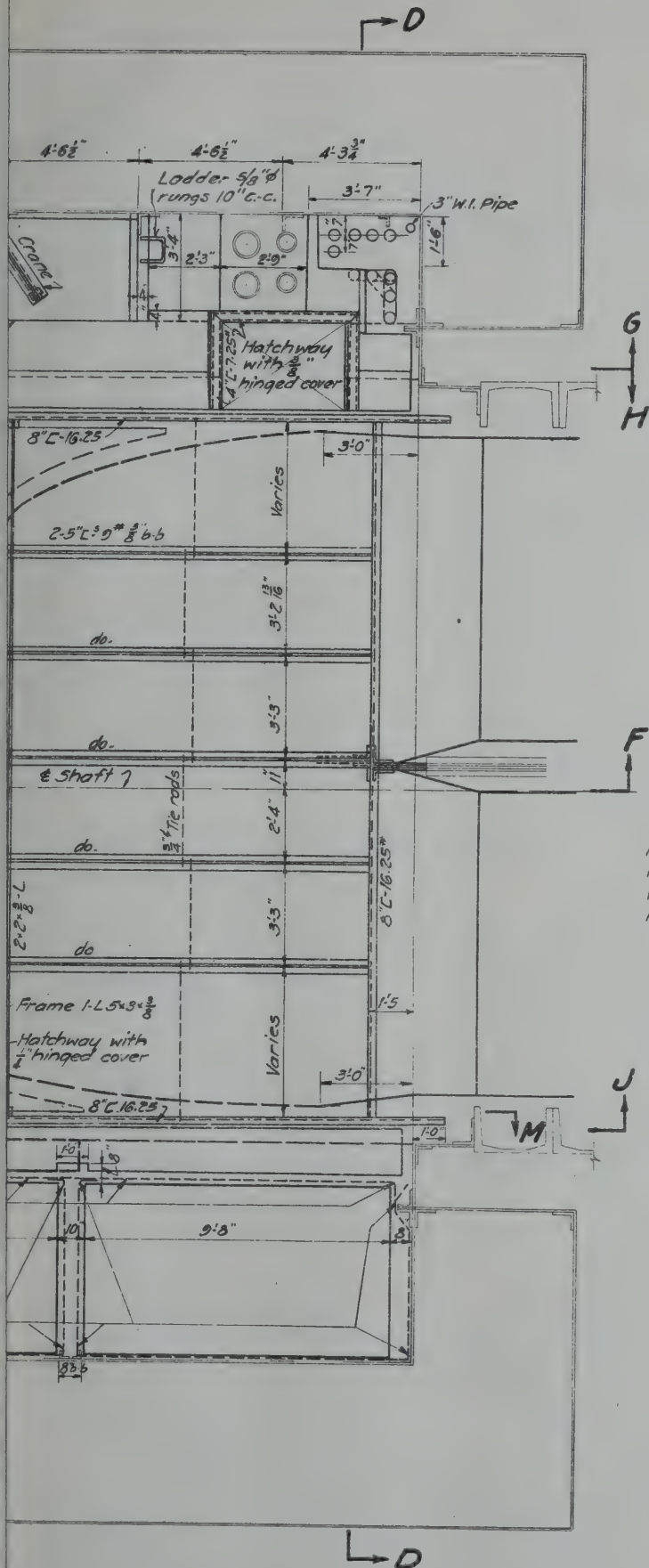
O. S. Singstad  
 CHIEF ENGINEER

FILE NO. 1-14

DRAWN BY: *[Signature]*  
 CHECKED BY: *[Signature]*







-Reference Notes-

For Sections C-C & D-D see Contract Dwg. No. 120, File No. 1-14

For " E-E & F-F " " " 121, " " 1-14

For " G-G, M-M & O-O " " " 122, " " 1-14

For " H-H & J-J " " " 123 " " 1-14

NEW YORK STATE  
BRIDGE & TUNNEL COMMISSION  
AND  
NEW JERSEY INTERSTATE  
BRIDGE & TUNNEL COMMISSION  
THE HOLLAND TUNNEL  
CONTRACT No. 14  
CONTRACT DRAWING No. 119

SCALE: 0 1 2 3 FT.

DATE OCTOBER 20, 1925

*Ch. S. Supt.*  
CHIEF ENGINEER

FILE NO. 1-14

M. B. Brown Printing & Binding Co.,  
37-41 Chambers Street, N. Y.

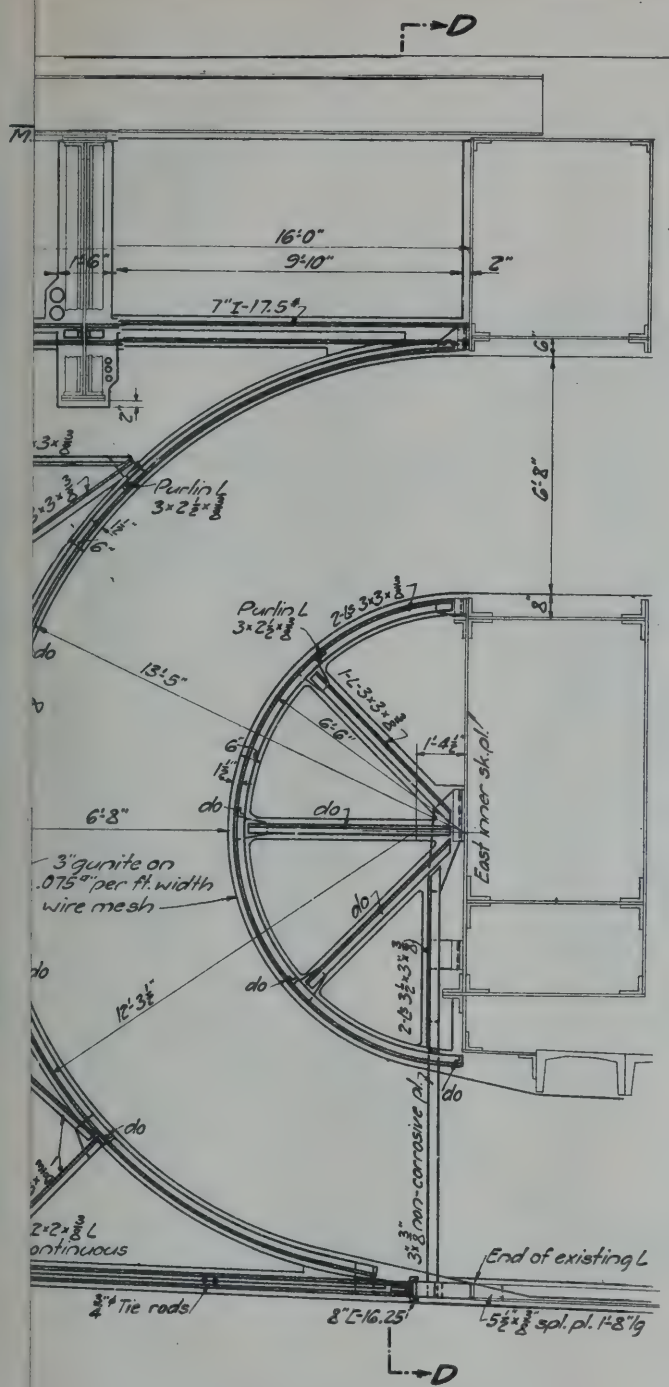












M.H.W.EI.300.0

~Reference Notes~

For Sections A-A & B-B see Contract Dwg. No. 119, File No. 1-14  
 For " C-C & D-D " " " " 120, " " 1-14  
 For " G-G, M-M, N-N & O-O " " " " 122, " " 1-14  
 For " H-H, J-J, K-K & L-L " " " " 123 " " 1-14  
 For Details of Duct Frames " " " " 124 " " 1-14

NEW YORK STATE  
 BRIDGE & TUNNEL COMMISSION  
 AND  
 NEW JERSEY INTERSTATE  
 BRIDGE & TUNNEL COMMISSION  
 THE HOLLAND TUNNEL  
 CONTRACT No. 14  
 CONTRACT DRAWING No. 121

SCALE:

DATE October 20, 1925

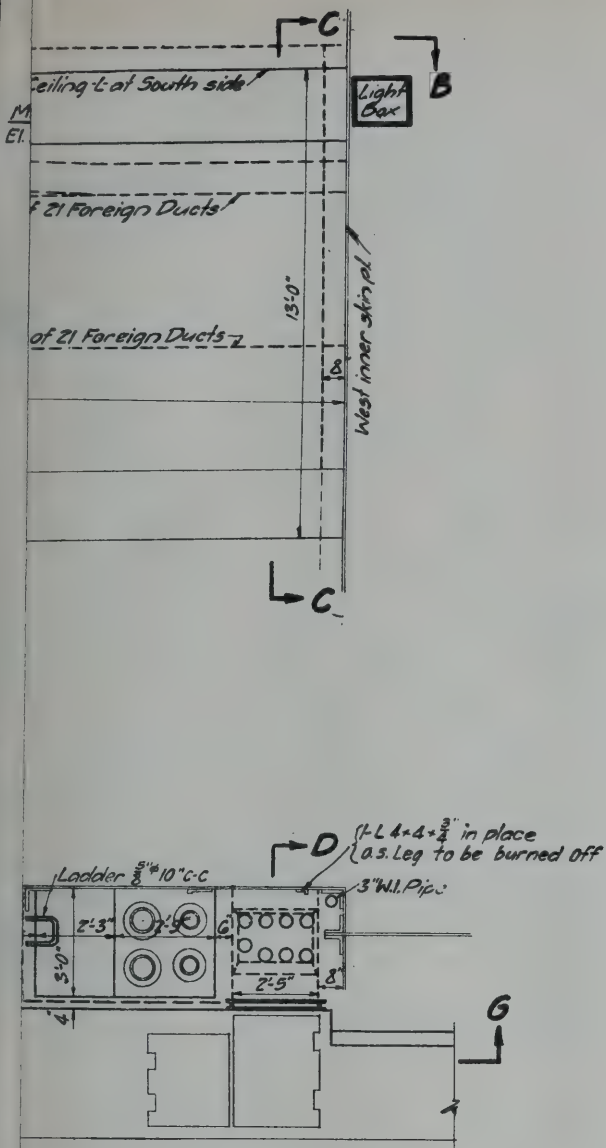
*Ol. Sargent*  
 CHIEF ENGINEER

FILE NO. 1-14

DRAWN  
 CHECK







-Reference Notes-  
 For Sections A-A & B-B see Contract Dwg. No. 119, File No. 1-14  
 For " C-C & D-D " " " " 120, " " 1-14  
 For Section E-E " " " " 121, " " 1-14  
 For Sections K-K & L-L " " " " 123, " " 1-14

NEW YORK STATE  
 BRIDGE & TUNNEL COMMISSION  
 AND  
 NEW JERSEY INTERSTATE  
 BRIDGE & TUNNEL COMMISSION  
 THE HOLLAND TUNNEL  
 CONTRACT No. 14  
 CONTRACT DRAWING No. 122

SCALE: 0 1 2 3 FT.

DATE: OCTOBER 20, 1928

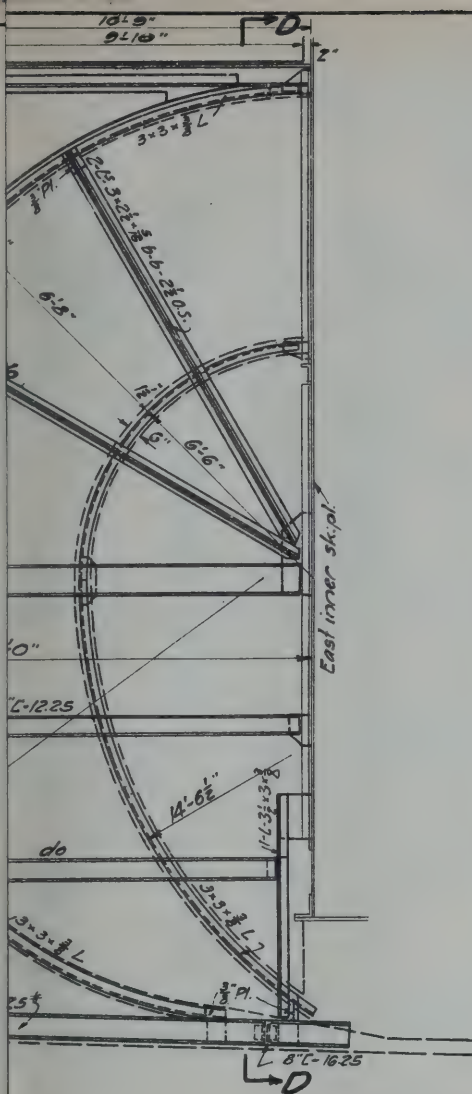
*Ol. Siegestad*  
 CHIEF ENGINEER

FILE NO. 1-14

M. B. Brown Printing & Binding Co.,  
 37-41 Chambers Street, N. Y.





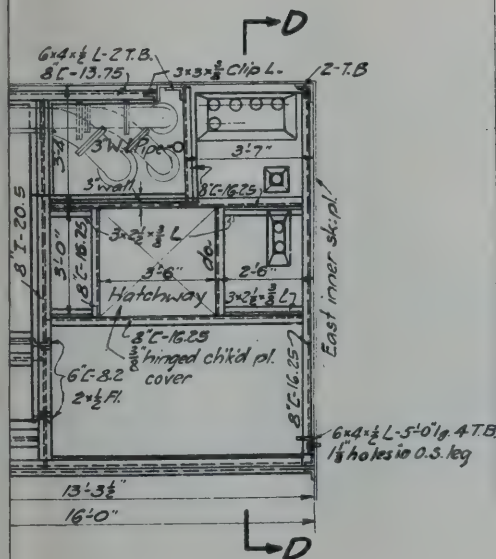


A

B

~Reference Notes~

For Sections A-A & B-B see Contract Dwg. No. 119, File No. 1-14  
 For " C-C & D-D " " " " 120, " " 1-14  
 For " E-E " " " " 121, " " 1-14  
 For " G-G " " " " 122, " " 1-14  
 For Details of Duct Frames " " " " 124-" " 1-14



G

H

NEW YORK STATE  
 BRIDGE & TUNNEL COMMISSION  
 AND  
 NEW JERSEY INTERSTATE  
 BRIDGE & TUNNEL COMMISSION  
 THE HOLLAND TUNNEL  
 CONTRACT No. 14  
 CONTRACT DRAWING No. 123

SCALE: 0 1 2 3 FT.

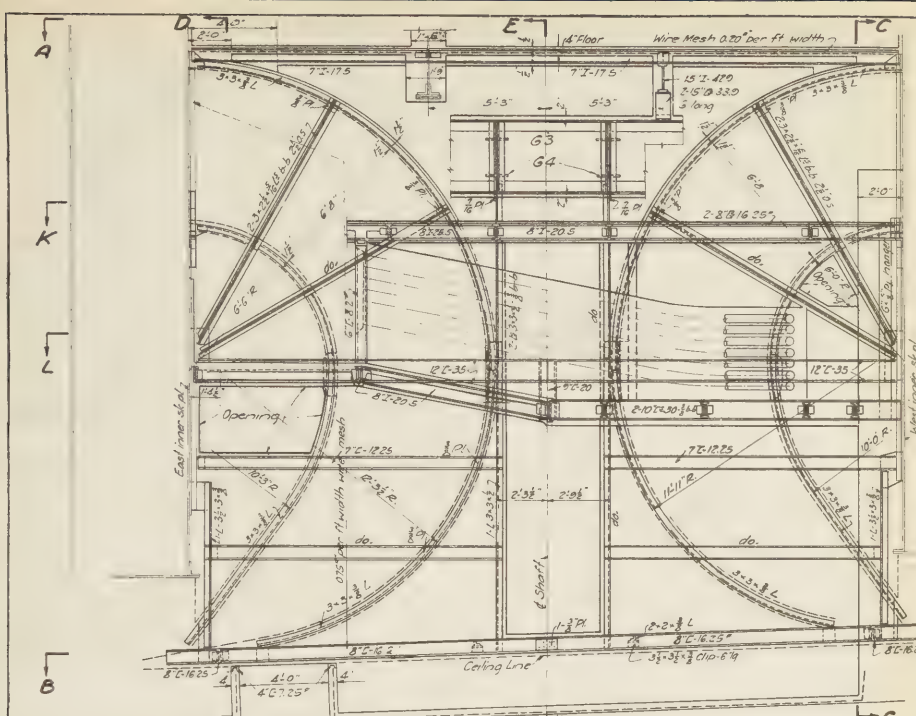
DATE October 20, 1923.

*Ol. Singstad*  
 CHIEF ENGINEER

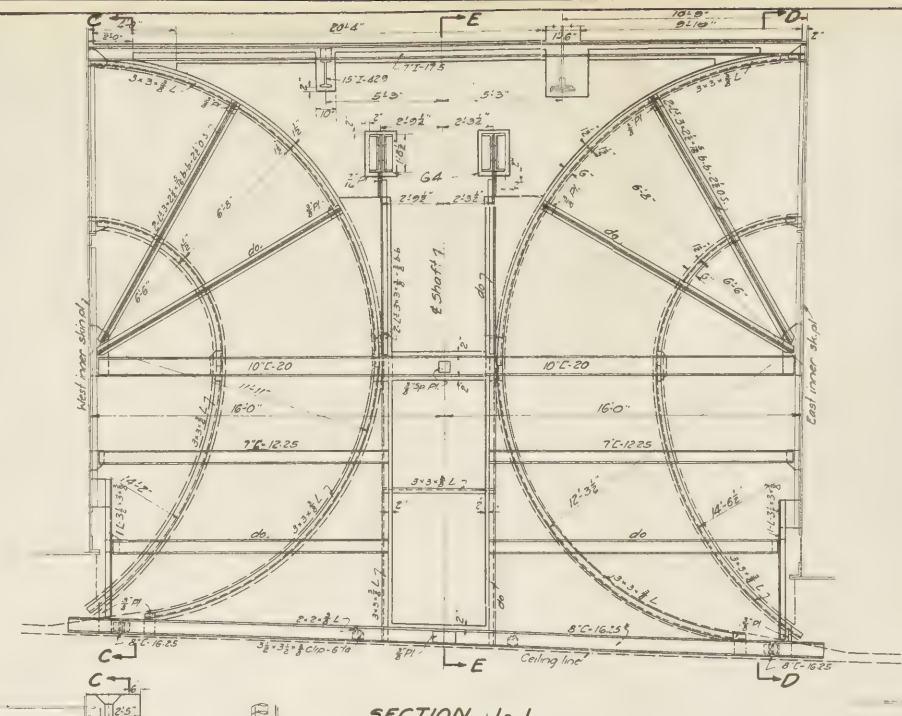
FILE NO. 1-14

M. B. Brown Printing & Binding Co.,  
 37-41 Chambers Street, N. Y.



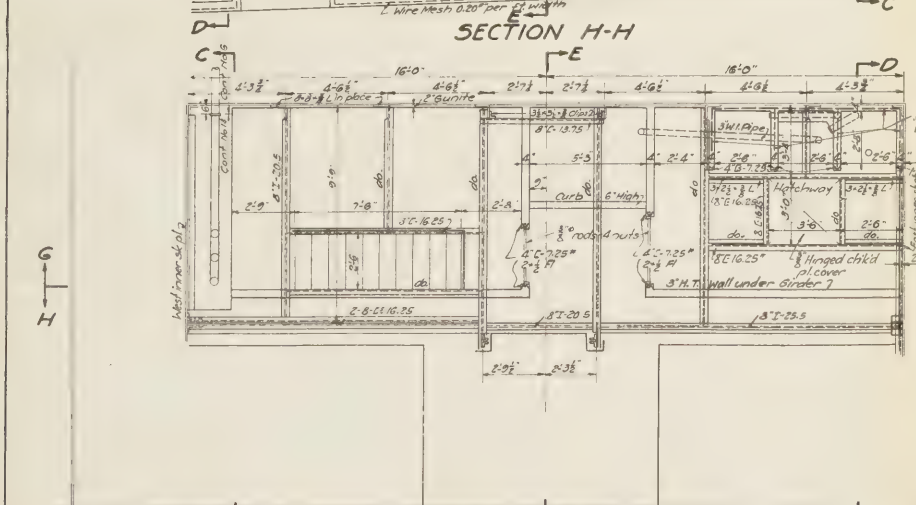


A  
K  
L  
B

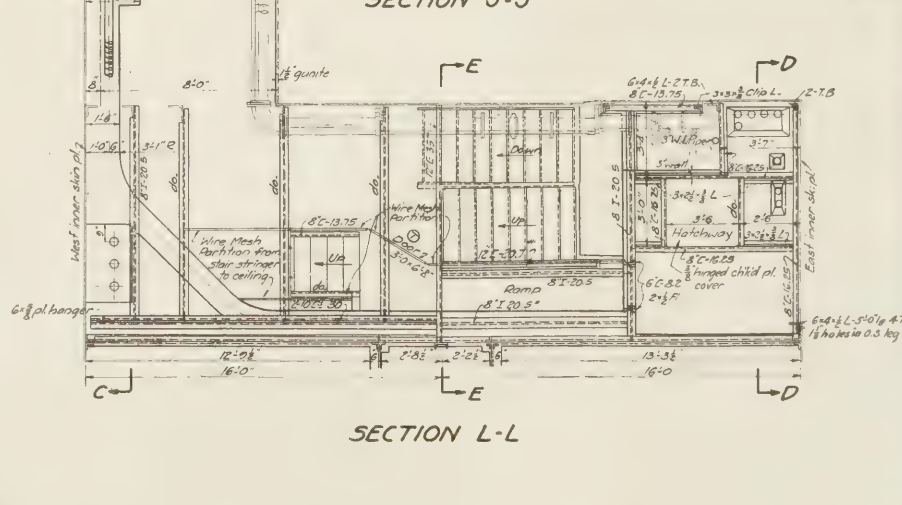


A  
K  
L  
B

Reference Notes—  
 For Sections A-A & B-B see Contract Dwg. No. 119, File No. 1-14  
 For " C-C & D-D " " " " 120, " " 1-14  
 For " E-E " " " " 121, " " 1-14  
 For " G-G " " " " 122, " " 1-14  
 For Details of Duct Frames " " " 124 " " 1-14



C  
E  
D  
G  
H



C  
E  
D  
G  
H

SECTION J-J

SECTION L-L

SECTION K-K  
 DRAWN BY C.F.A.  
 CHECKED BY G.H. 9.R.R.  
 ENGINEER OF DESIGN

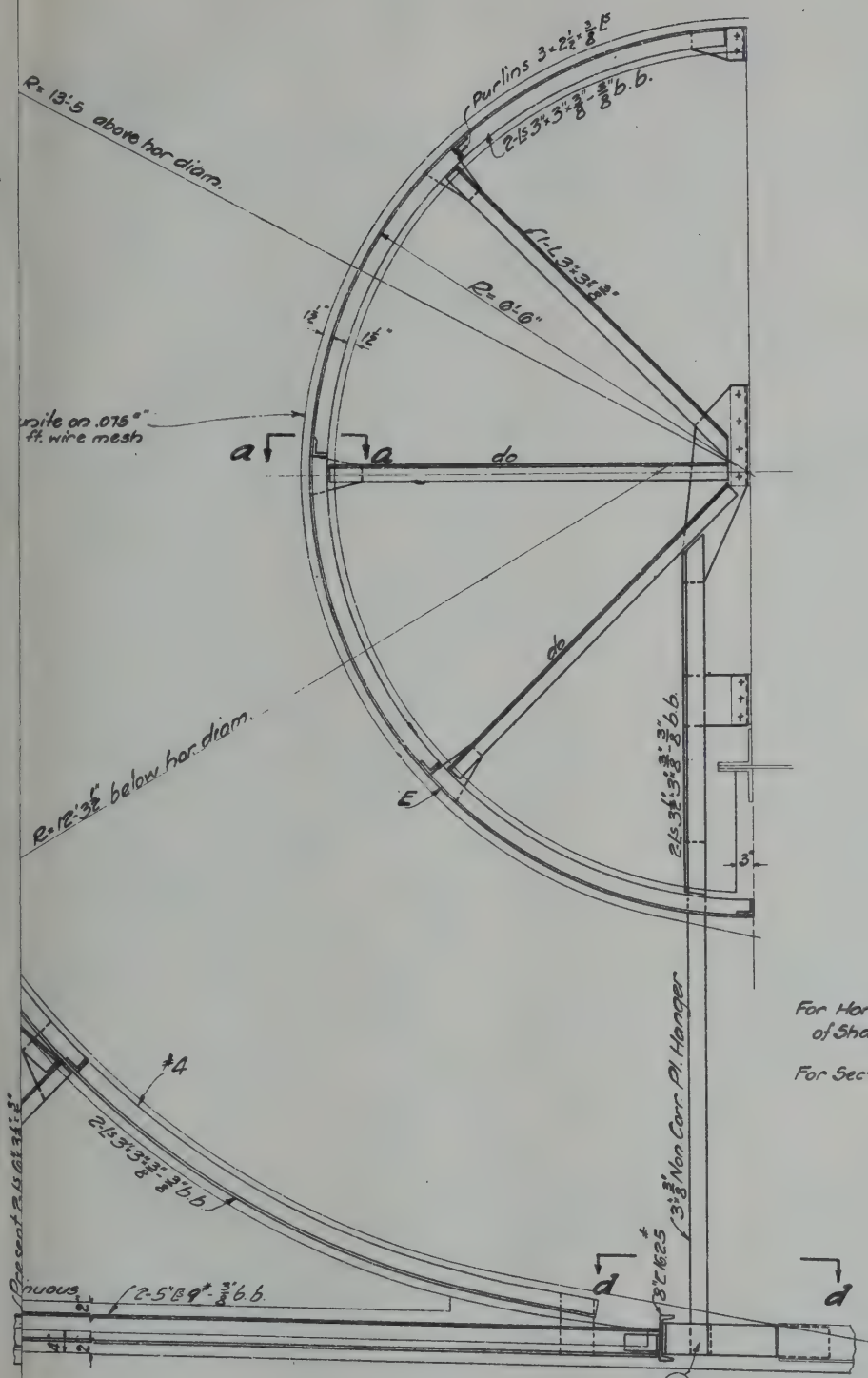
INTERIOR SOUTH LAND SHAFT NEW JERSEY

NEW YORK STATE  
 BRIDGE & TUNNEL COMMISSION  
 AND  
 NEW JERSEY INTERSTATE  
 BRIDGE & TUNNEL COMMISSION  
 THE HOLLAND TUNNEL  
 CONTRACT No. 14  
 CONTRACT DRAWING No. 123

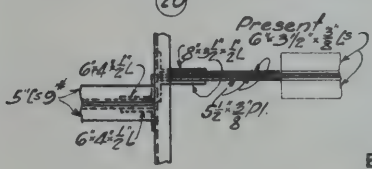
SCALE: 1" = 10' FT.  
 DATE: OCTOBER 20, 1925.

Al. S. G. 1-14

M. D. Brown Printing & Binding Co.,  
 37-41 Chambers Street, N. Y.



— Reference Notes —  
 For Horizontal & Vertical Sections  
 of Shaft Interior see Contract Dwg. Nos 119-123 incl  
 File No 1-14  
 For Sections a-a & b-b see Contract Dwg. No. 116  
 File No 1-14



DUCT FRAMES NOS. 4 & 4E.

DUCT FRAMES.

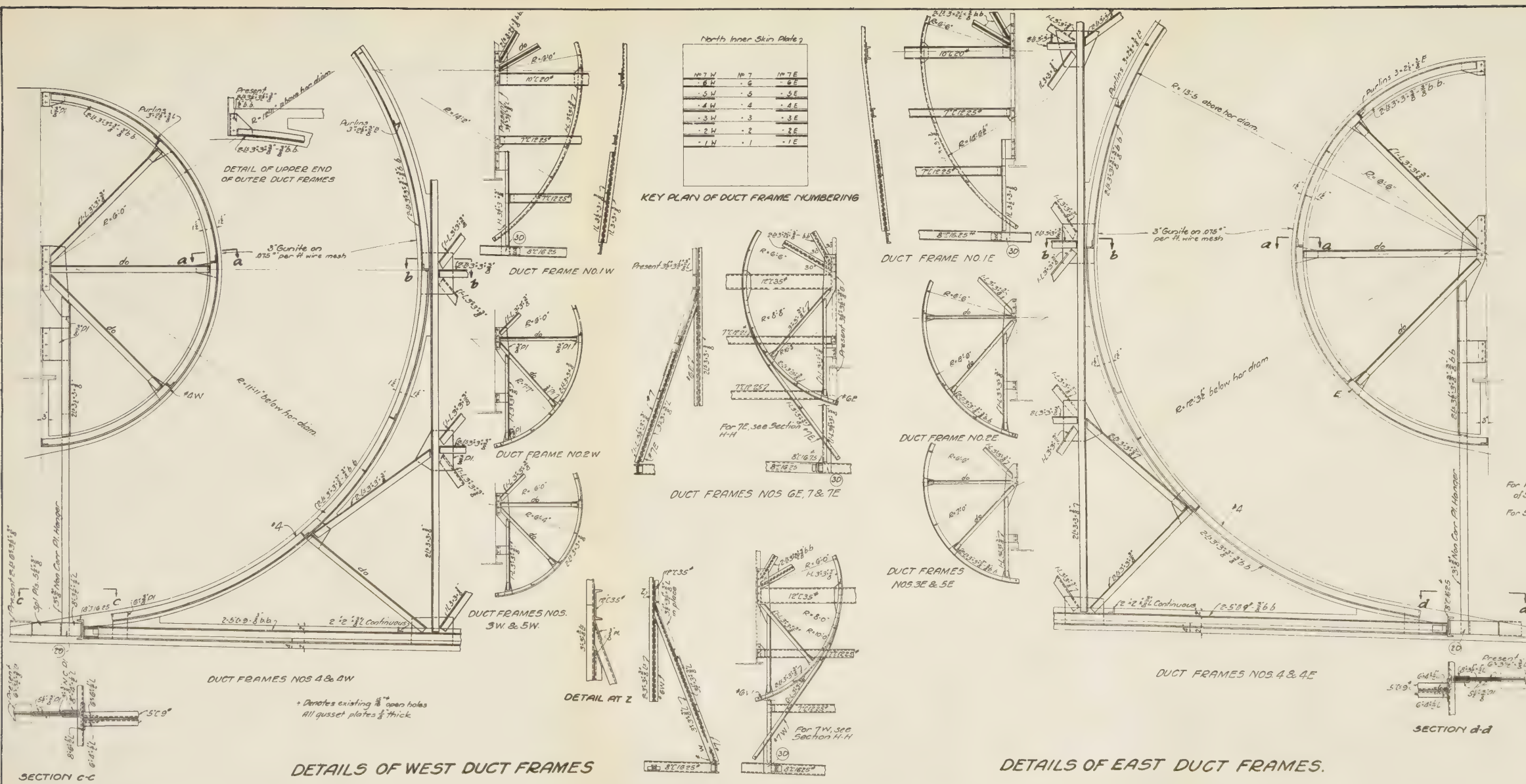
NEW YORK STATE  
 BRIDGE & TUNNEL COMMISSION  
 AND  
 NEW JERSEY INTERSTATE  
 BRIDGE & TUNNEL COMMISSION  
 THE HOLLAND TUNNEL  
 CONTRACT No. 14  
 CONTRACT DRAWING No. 124



DATE: OCTOBER 20, 1925

*Ole Singstad*  
 CHIEF ENGINEER





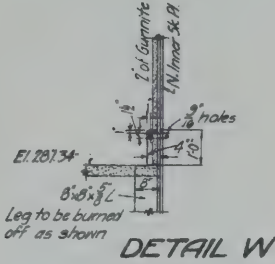
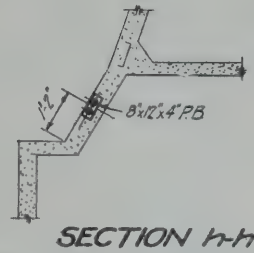
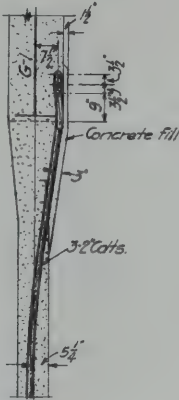
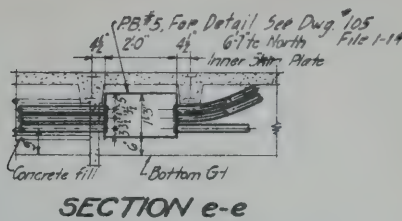
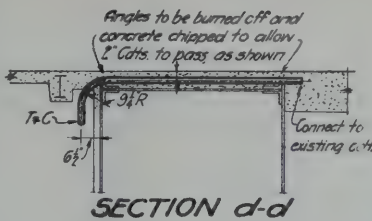
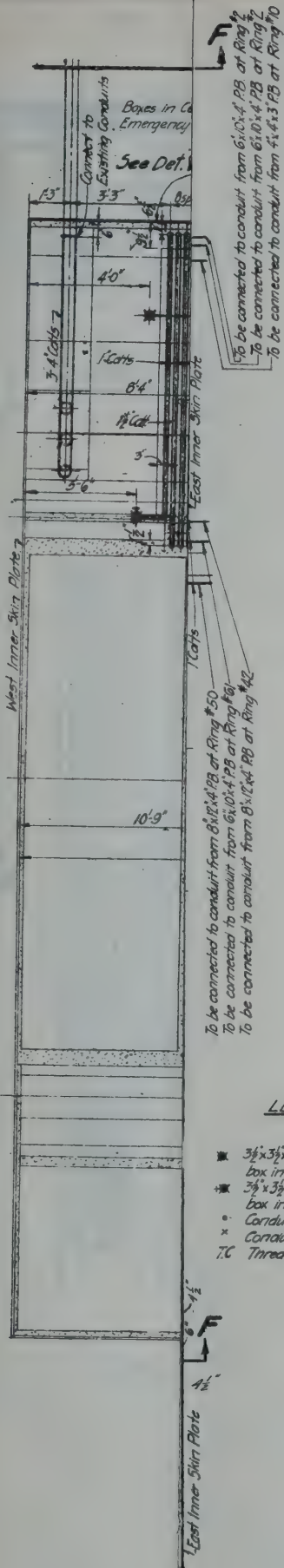
— Reference Notes —  
 For Horizontal & Vertical Sections  
 of Shaft Interior see Contract Drawings Nos. 110-112 incl.  
 File No. 1-14  
 For Sections A-A & B-B see Contract Drawing No. 116  
 File No. 1-14

NEW YORK STATE  
 BRIDGE & TUNNEL COMMISSION  
 AND  
 NEW JERSEY INTERSTATE  
 BRIDGE & TUNNEL COMMISSION  
**THE HOLLAND TUNNEL**  
 CONTRACT No. 14  
 CONTRACT DRAWING No. 124

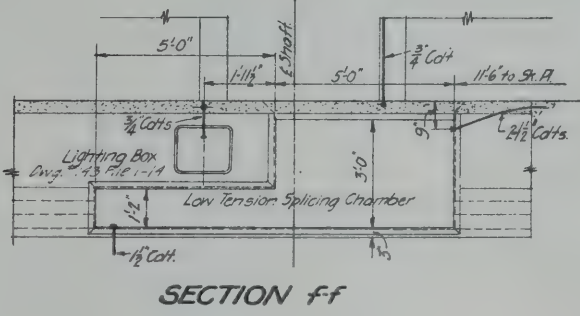
DATE: OCTOBER 20, 1928

DESIGNED BY  
 CHECKED BY  
 DRAWN BY  
 CHECKED BY

**INTERIOR SOUTH LAND SHAFT-NEW JERSEY**



SECTION g-g



SECTION f-f

**Notes:**  
 All conduits 3/4" iron, unless otherwise noted.  
 All 3/4" conduits terminating in boxes to be closed with capped bushings; all larger conduits terminating in boxes to be closed with 'pennies' under the bushings.  
 All conduits to be galvanized steel unless otherwise marked.  
 Ends of all fibre conduits to be plugged.  
 Where conduits with same mark appear on different floors, the length of same includes the vertical run.

**LEGEND**

- 3 1/2 x 3 1/2 x 2 cast iron outlet box in ceiling
- 3 1/2 x 3 1/2 x 2 cast iron outlet box in wall
- Conduit going up
- × Conduit going down
- TC Threaded and capped

NEW YORK STATE  
 BRIDGE & TUNNEL COMMISSION  
 AND  
 NEW JERSEY INTERSTATE  
 BRIDGE & TUNNEL COMMISSION  
 THE HOLLAND TUNNEL  
 CONTRACT No. 14  
 CONTRACT DRAWING No. 125

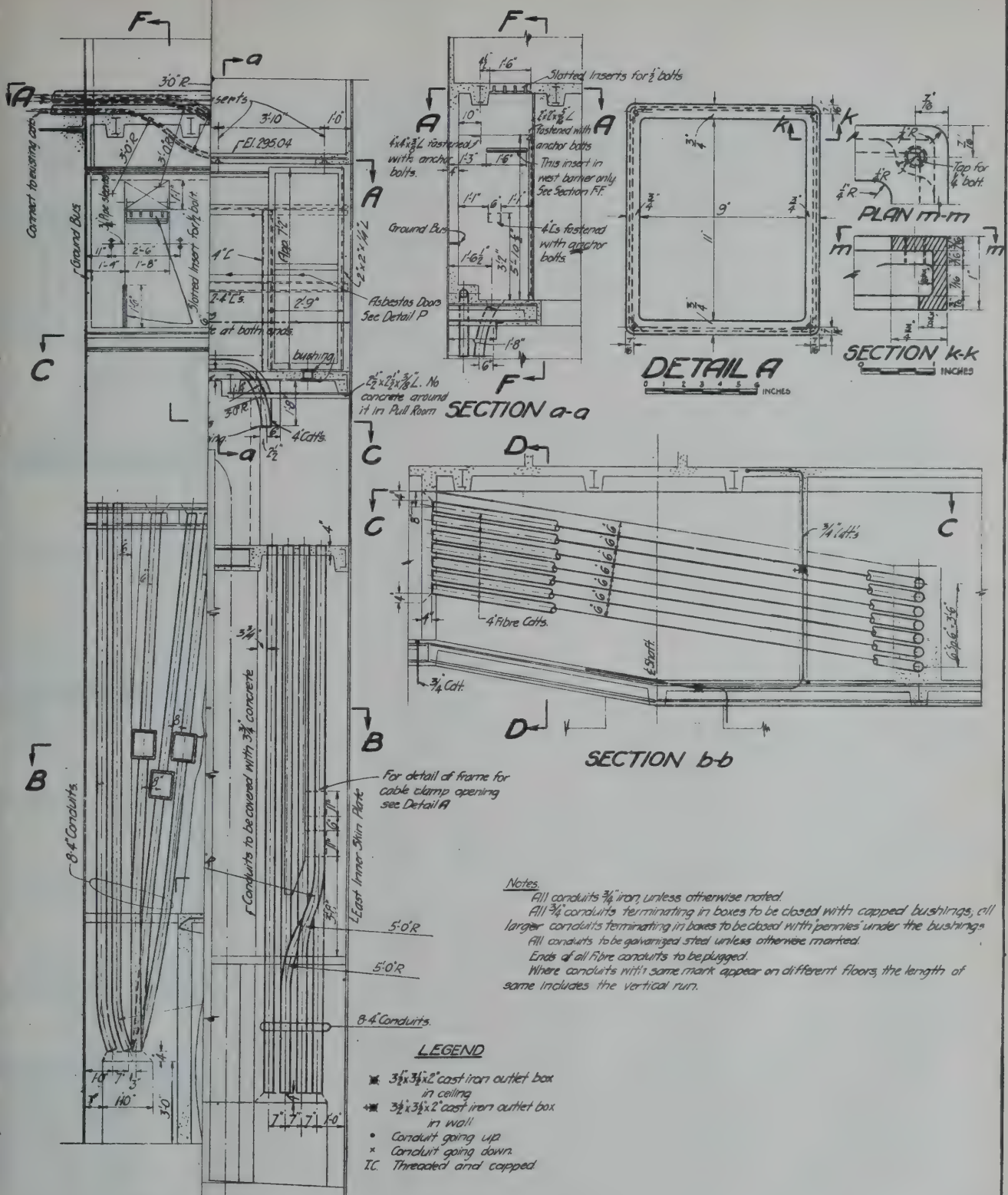
*C. B. Stillwell*  
 CONSULTING ENGINEER

SCALE: 0 1 2 3 FEET DATE OCTOBER 20, 1925

*O. E. Smestad*  
 CHIEF ENGINEER







NEW YORK STATE  
BRIDGE & TUNNEL COMMISSION  
AND  
NEW JERSEY INTERSTATE  
BRIDGE & TUNNEL COMMISSION  
THE HOLLAND TUNNEL  
CONTRACT No. 14  
CONTRACT DRAWING No. 126

*L. B. Stillwell*  
CONSULTING ENGINEER

SCALE: 1" = 1' 0"  
EXCEPT AS SHOWN

DATE: OCTOBER 20, 1925

*Oliver S. Smith*  
CHIEF ENGINEER

FILE NO. 1-14

M. B. Brown Printing & Binding Co.,  
37-41 Chambers Street, N. Y.





except where used for framing

For Key Plan see Contract No. 131 File No. 1-14

Sect. C-C	"	"	129	"	1-14
E-E	"	"	131	"	1-14
F-F	"	"	132	"	1-14
G-G	"	"	133	"	1-14
H-H	"	"	134	"	1-14
I-I	"	"	135	"	1-14
J-J	"	"	136	"	1-14
K-K	"	"	137	"	1-14

For Architectural Drawings of River Ventilation Building N.J. see Contract Dwg's Nos. 58 to 82 incl. File No. 1-14

For Steel Drawings of River Ventilation Building N.J. see Contract Dwg's Nos. 83 to 97 incl. File No. 1-14

For Electrical Conduit Drawings of River Ventilation Building N.J.

see Contract Dwg's Nos. 98 to 107 incl. File No. 1-14

For Structural Drawings of Interior River Shafts N.J.

see Contract Dwg's Nos. 127 to 137 incl. File No. 1-14

For Electrical Conduit Drawings of Interior River Shafts N.J. see Contract Dwg's Nos. 108 to 142 incl. File No. 1-14

Grating

Screen not in this Contract

Shaft

Light Box see Contract Drawing No. 143 File No. 1-14  
Wire mesh 0.35 per ft

Finish not in this Contract

SECTION A-A  
NORTH SHAFT

2-131.5  
Girder Web 54" x 1/2"  
2-14 5" x 3/8" x 1/8" Top  
1-18 1/2" x 1/8" Top  
2-14 5" x 3/8" x 1/8" Bottom  
2-14 5" x 3/8" x 1/8" Bottom

El. 231.0

NEW YORK STATE  
BRIDGE & TUNNEL COMMISSION  
AND  
NEW JERSEY INTERSTATE  
BRIDGE & TUNNEL COMMISSION  
THE HOLLAND TUNNEL  
CONTRACT No. 14  
CONTRACT DRAWING No. 127

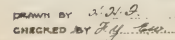
SCALE: 0 1 2 3 4 FEET

DATE OCTOBER 20 1925

*Ole Engstrom*  
CHIEF ENGINEER

FILE NO. 1-14





INTERIOR RIVER SHAFTS - NEW JERSEY

For Architectural Drawings of River Ventilation  
Building Nul. see Contract Dwg's Nos. 58 to 82 incl. File No. H-4  
For Steel Drawings of River Ventilation  
Building Nul. see Contract Dwg's Nos. 83 to 97 incl. File No. H-4  
For Electrical Conduit Drawings of River  
Ventilation Building Nul.  
see Contract Dwg's Nos. 98 to 109 incl. File No. H-4  
For Structural Drawings of Interior River Shafts Nul.  
see Contract Dwg's Nos. 127 to 137 incl. File No. H-4  
For Electrical Conduit Drawings of Interior River  
Shafts Nul. see Contract Dwg's Nos. 108 & 138 to 142 incl. File No. H-4

NEW YORK STATE  
BRIDGE & TUNNEL COMMISSION  
AND  
NEW JERSEY INTERSTATE  
BRIDGE & TUNNEL COMMISSION  
THE HOLLAND TUNNEL  
CONTRACT No. 14  
CONTRACT DRAWING No. 127

DATE OCTOBER 20 1925

FILE NO 1-14

where used for framing

For Key Plan	see Contract Dwg. No.	131	File No.	1-14
" Section D-D "	" "	" "	" "	" "
" " E-E "	" "	" "	" "	" "
" " F-F "	" "	" "	" "	" "
" " G-G "	" "	" "	" "	" "
" " H-H "	" "	" "	" "	" "
" " I-I "	" "	" "	" "	" "
" " J-J "	" "	" "	" "	" "
" " K-K "	" "	" "	" "	" "

**SECTION B-B**  
SOUTH SHAFT

NEW YORK STATE  
BRIDGE & TUNNEL COMMISSION  
AND  
NEW JERSEY INTERSTATE  
BRIDGE & TUNNEL COMMISSION

**THE HOLLAND TUNNEL**  
CONTRACT No. 14  
CONTRACT DRAWING No. 128

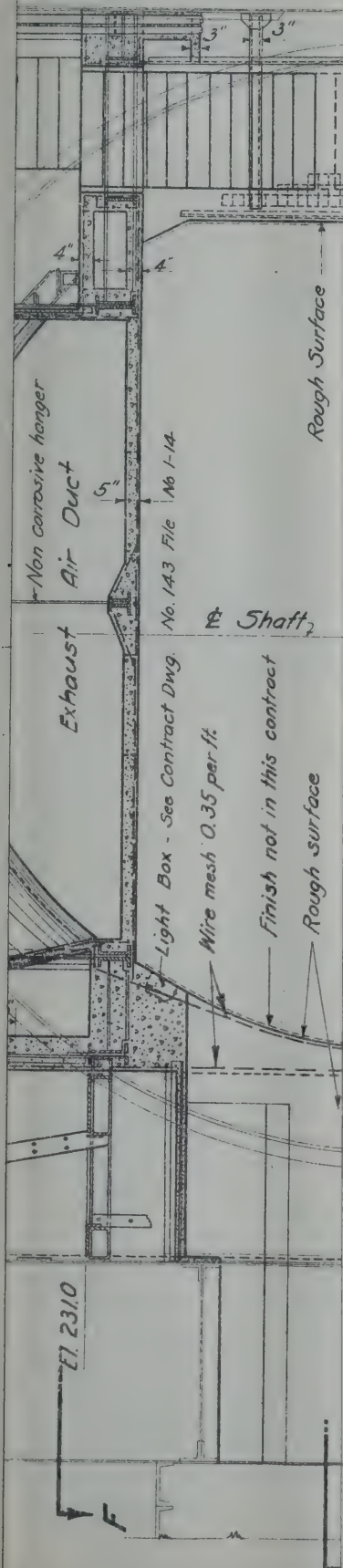
SCALE: 0 1 2 3 4 FEET

DATE: OCTOBER 20, 1925

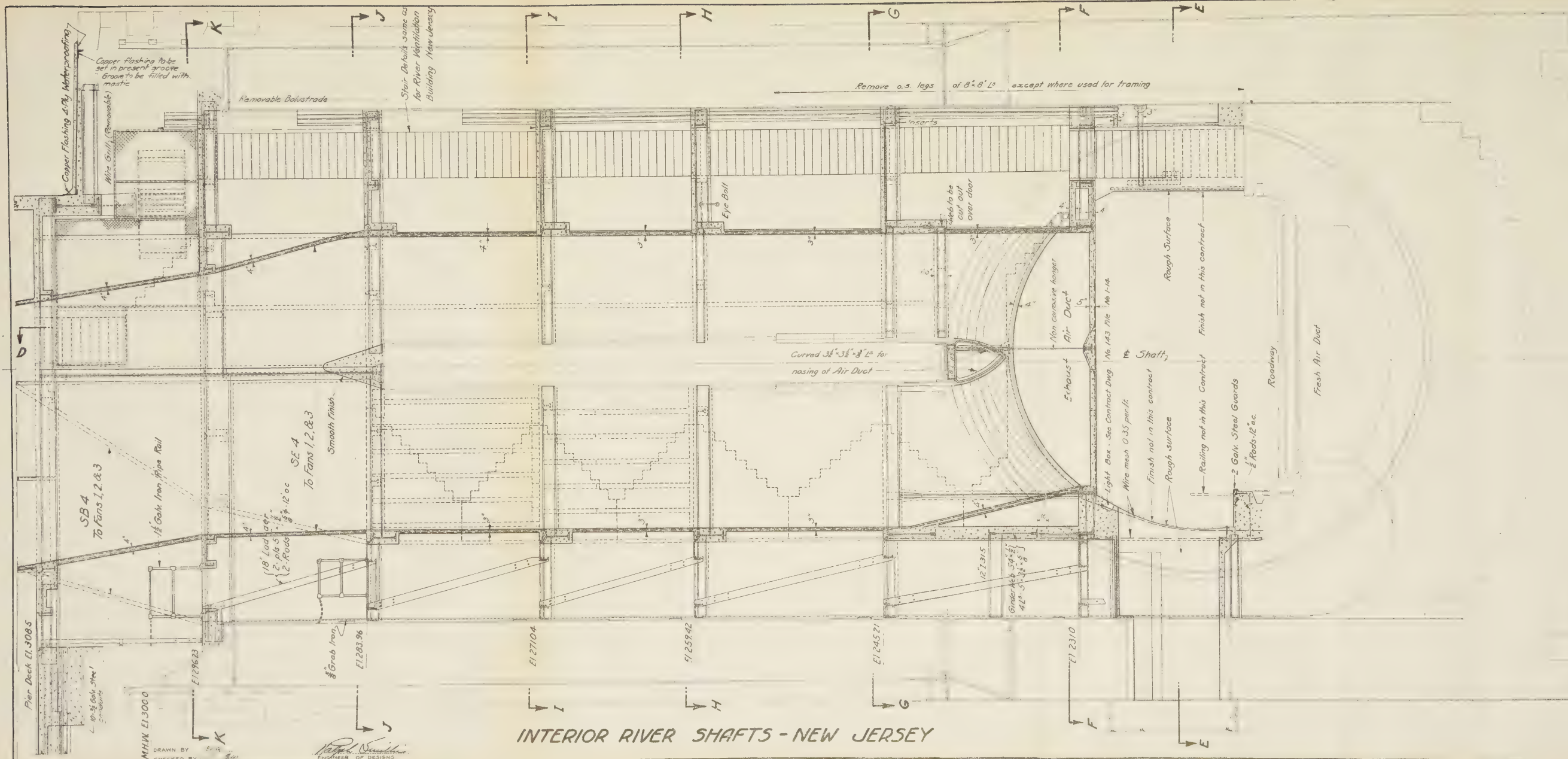
*W. H. R. S. S.*  
CHIEF ENGINEER

FILE NO. 1-14

M. B. Brown Printing & Binding Co.,  
37-41 Chambers Street, N. Y.







For No. Plan	See Contract Dwg. No.	131	File No.	1-14
" Section D-D "	" "	" 130 "	" "	" 1-14 "
" " E-E "	" "	" 131 "	" "	" 1-14 "
" " F-F "	" "	" 132 "	" "	" 1-14 "
" " G-G "	" "	" 133 "	" "	" 1-14 "
" " H-H "	" "	" 134 "	" "	" 1-14 "
" " I-I "	" "	" 135 "	" "	" 1-14 "
" " J-J "	" "	" 136 "	" "	" 1-14 "
" " K-K "	" "	" 137 "	" "	" 1-14 "

**SECTION B-B**  
SOUTH SHAFT

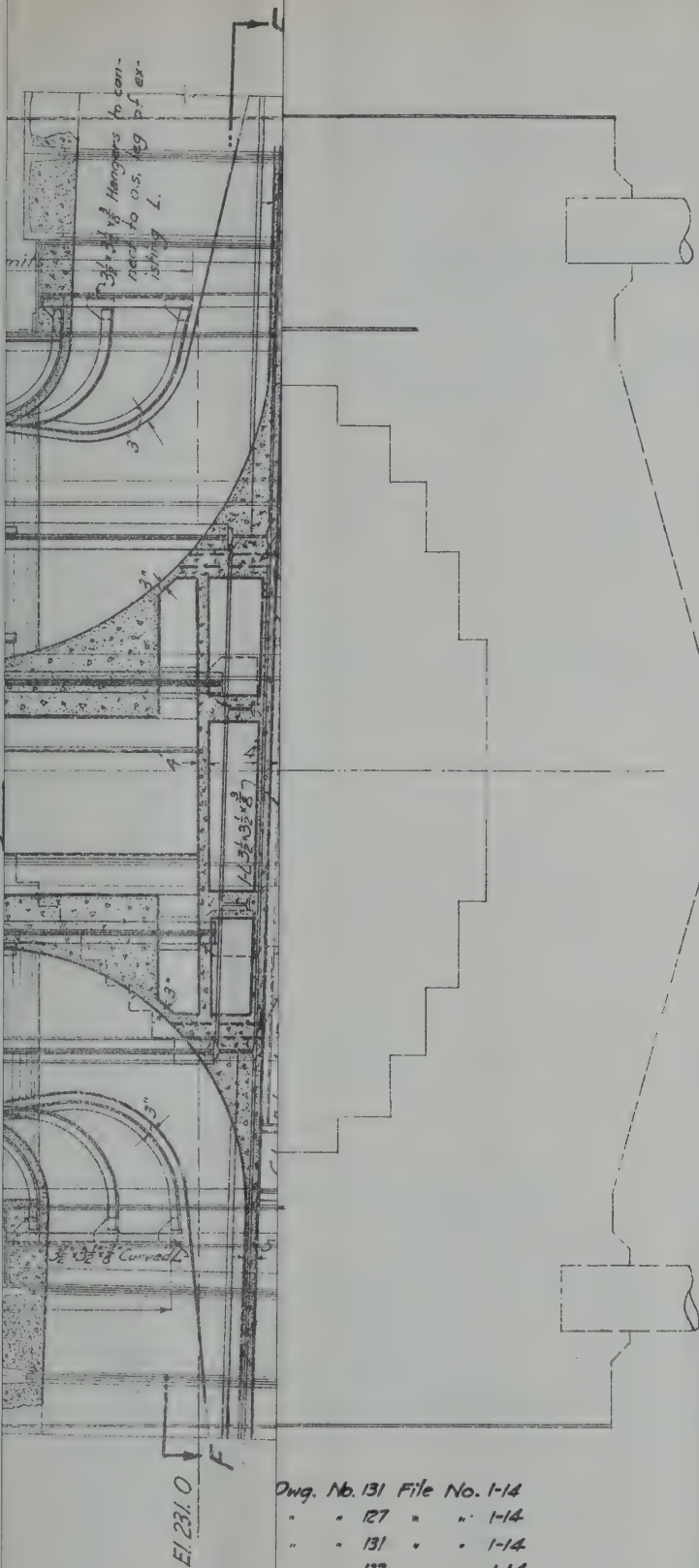
NEW YORK STATE  
BRIDGE & TUNNEL COMMISSION  
AND  
NEW JERSEY INTERSTATE  
BRIDGE & TUNNEL COMMISSION  
**THE HOLLAND TUNNEL**  
CONTRACT No. 14  
CONTRACT DRAWING No. 128

SCALE 0 1 2 3 4 FEET DATE JANUARY 20, 1915

*W. B. Brown*  
CHIEF ENGINEER

**INTERIOR RIVER SHAFTS - NEW JERSEY**

DRAWN BY  
CHECKED BY  
ENGINEER OF DESIGN



SECTION C-C  
NORTH SHAFT

Dwg. No. 131 File No. 1-14  
 " " 127 " " 1-14  
 " " 131 " " 1-14  
 " " 132 " " 1-14  
 " " 133 " " 1-14  
 " " 134 " " 1-14  
 " " 135 " " 1-14  
 " " 136 " " 1-14  
 " " 137 " " 1-14

NEW YORK STATE  
 BRIDGE & TUNNEL COMMISSION  
 AND  
 NEW JERSEY INTERSTATE  
 BRIDGE & TUNNEL COMMISSION  
 THE HOLLAND TUNNEL  
 CONTRACT No. 14  
 CONTRACT DRAWING No. 129

SCALE: 0 1 2 3 FEET

DATE OCTOBER 20, 1925

*Ole Singstad*  
 CHIEF ENGINEER

FILE NO. 1-14



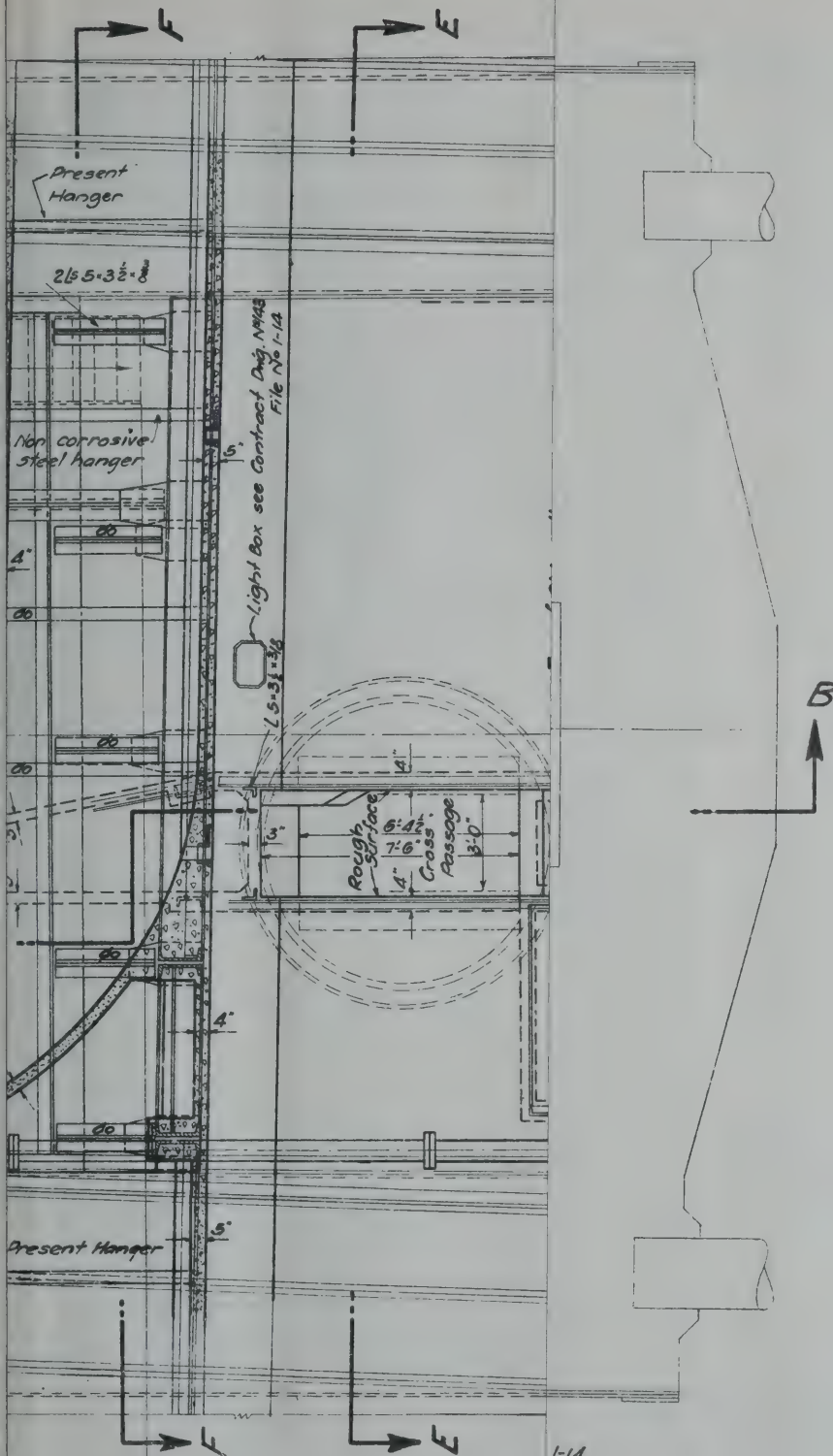


For Key Plan see Contract Dwg. No. 131 File No. 1-14

"	Sect. A-A	"	"	"	27	"	1-14
"	E-E	"	"	"	31	"	1-14
"	F-F	"	"	"	32	"	1-14
"	G-G	"	"	"	33	"	1-14
"	H-H	"	"	"	34	"	1-14
"	I-I	"	"	"	35	"	1-14
"	J-J	"	"	"	36	"	1-14
"	K-K	"	"	"	37	"	1-14

SCALE 0 1 2 3 FEET DATE OCTOBER 20, 1978

M. B. Brown Printing & Binding Co.  
37-41 Chambers Street, N. Y.



**SECTION D-D**  
**SOUTH SHAFT**

- 1-14
- 1-14
- 1-14
- 1-14
- 1-14
- 1-14
- 1-14
- 1-14

NEW YORK STATE  
BRIDGE & TUNNEL COMMISSION  
AND  
NEW JERSEY INTERSTATE  
BRIDGE & TUNNEL COMMISSION  
**THE HOLLAND TUNNEL**  
CONTRACT No. 14  
CONTRACT DRAWING No. 130

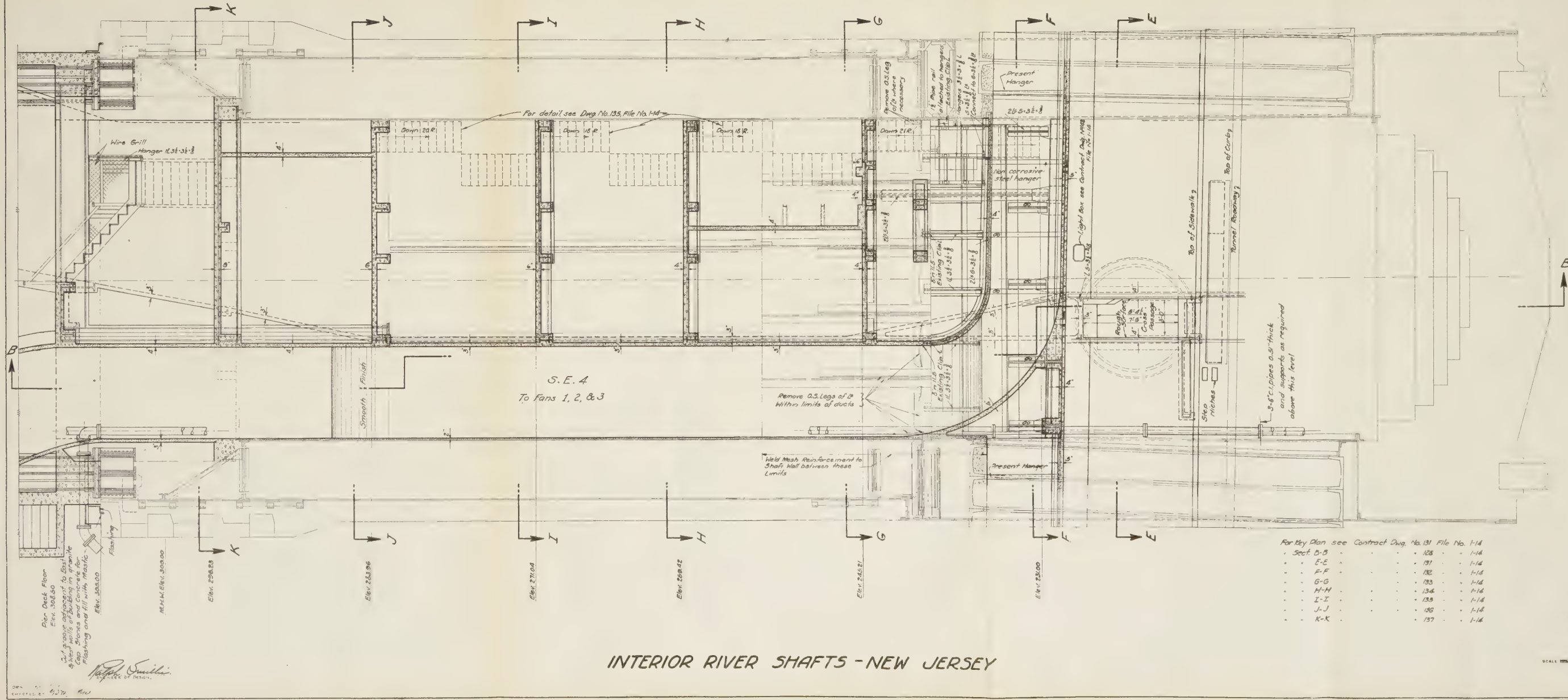
SCALE: 0 1 2 3 4 FEET

DATE OCTOBER 20, 1923

*Chas. E. Sargent*  
CHIEF ENGINEER

FILE NO. 1-14





SECTION D-D  
SOUTH SHAFT

For Key Plan see Contract Dwg. No. 131 File No. 1-14

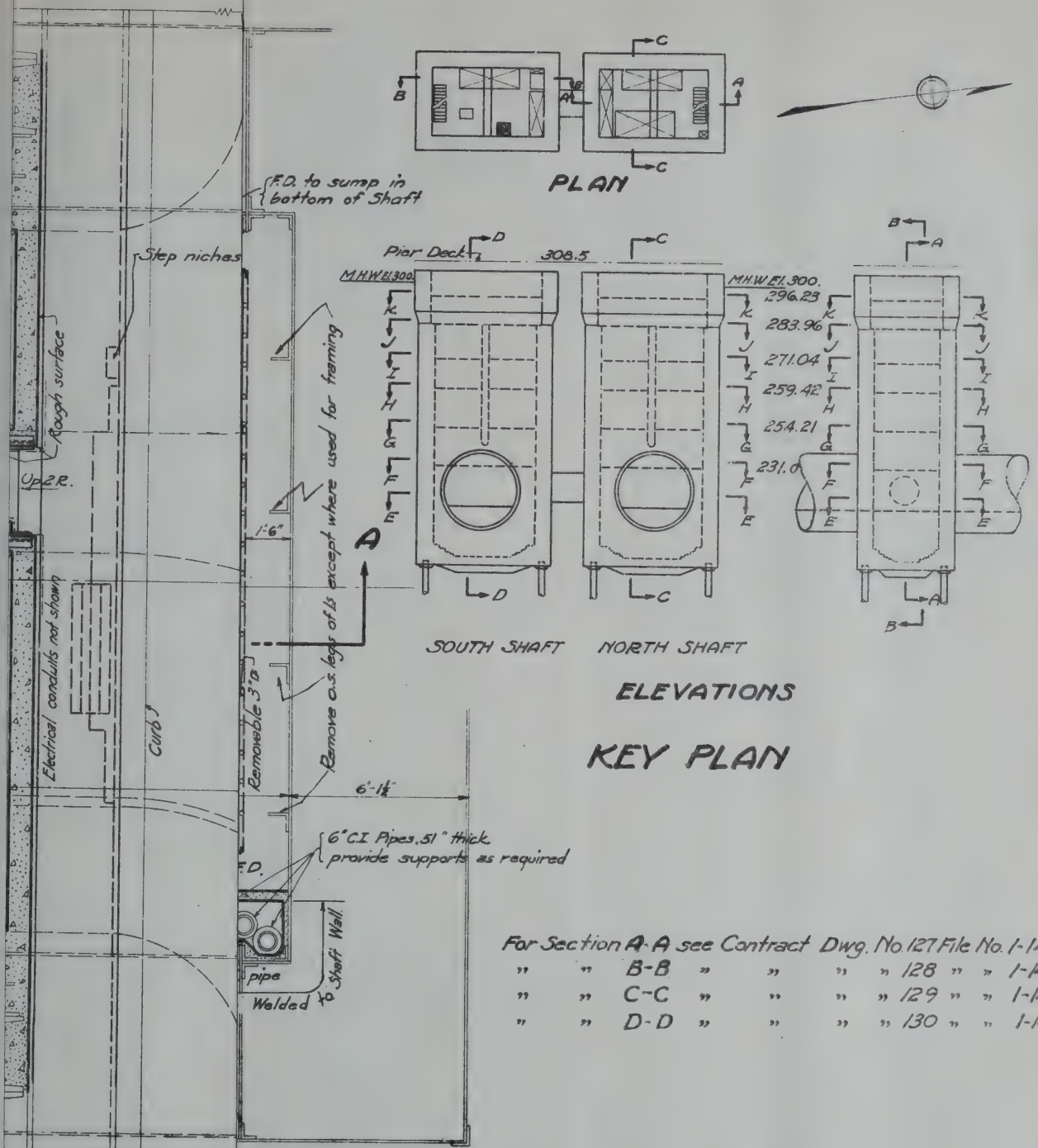
Section D-D	128	1-14
E-E	131	1-14
F-F	132	1-14
G-G	133	1-14
H-H	134	1-14
I-I	135	1-14
J-J	136	1-14
K-K	137	1-14

NEW YORK STATE  
BRIDGE & TUNNEL COMMISSION  
AND  
NEW JERSEY INTERSTATE  
BRIDGE & TUNNEL COMMISSION  
THE HOLLAND TUNNEL  
CONTRACT No. 14  
CONTRACT DRAWING No. 130

SCALE 0 1 2 3 4 FEET DATE OCTOBER 20, 1925

*Chas. E. Smith*  
CHAS. E. SMITH  
FILE NO. 1-14

M. B. Brown Printing & Binding Co.,  
37-41 Chambers Street, N. Y.



NEW YORK STATE  
BRIDGE & TUNNEL COMMISSION  
AND  
NEW JERSEY INTERSTATE  
BRIDGE & TUNNEL COMMISSION  
THE HOLLAND TUNNEL  
CONTRACT No. 14  
CONTRACT DRAWING No. 131

SCALE: 0 1 2 3 4 FEET

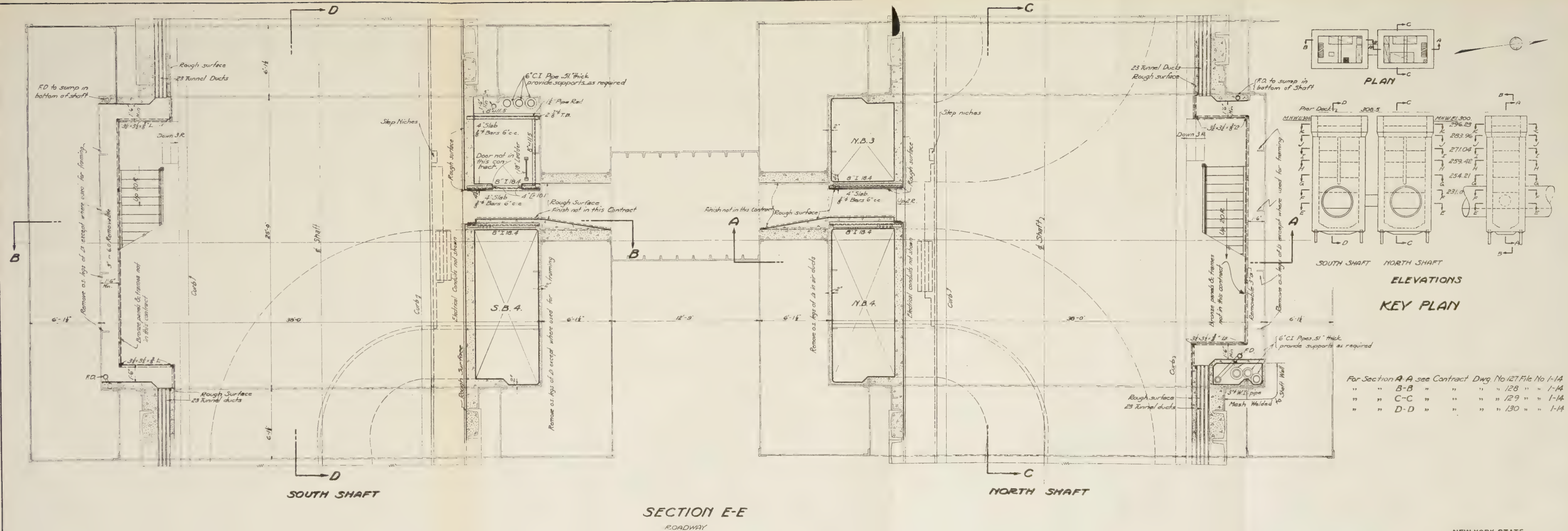
DATE OCTOBER 20, 1955

*Ch. S. Singer*  
CHIEF ENGINEER

FILL NO. 1-14

M. B. Brown Printing & Binding Co.,  
37-41 Chambers Street, N. Y.

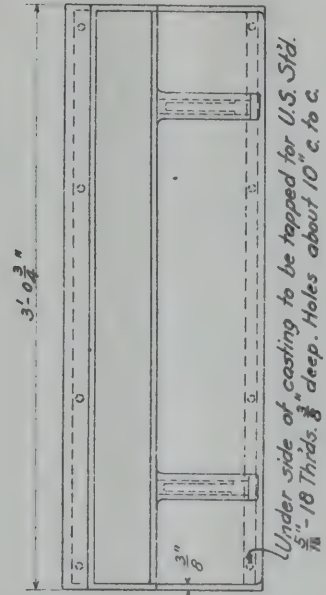
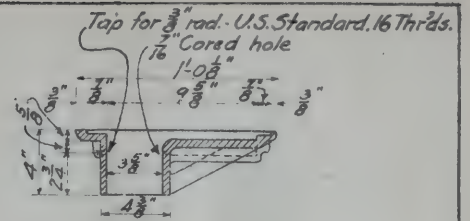
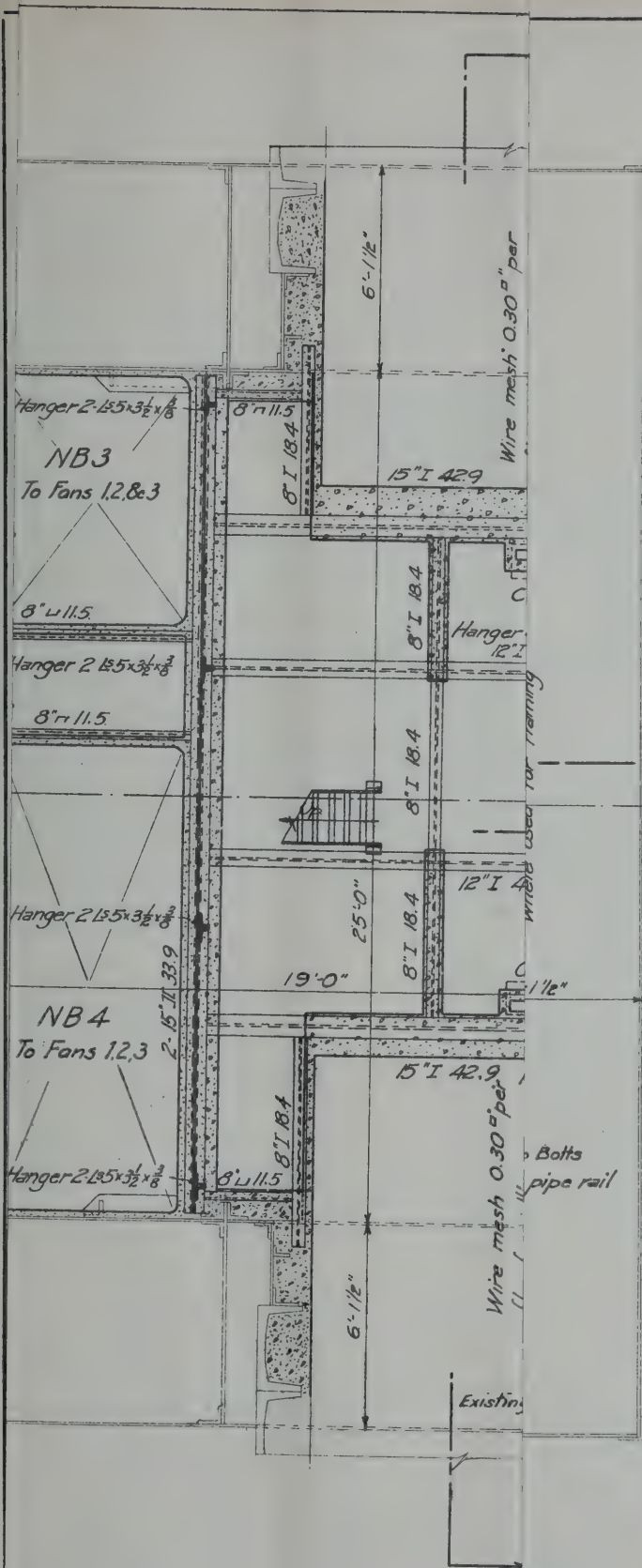




# INTERIOR RIVER SHAFTS - NEW JERSEY

NEW YORK STATE  
BRIDGE & TUNNEL COMMISSION  
AND  
NEW JERSEY INTERSTATE  
BRIDGE & TUNNEL COMMISSION  
THE HOLLAND TUNNEL  
CONTRACT No 14  
CONTRACT DRAWING No 131

SCALE 1" = 10'-0"  
DATE OCTOBER 20, 1914  
J. J. P.  
ENGINEER OF DESIGN



DETAIL OF CAST IRON EXHAUST  
AIR PORT TYPE A-3

For Key Plan see Contract Dwg No. 131 File No. 14

• Sect. A-A	"	"	"	127	"	1-14
• " B-B	"	"	"	128	"	1-14
• " C-C	"	"	"	129	"	1-14
• " D-D	"	"	"	130	"	1-14

NEW YORK STATE  
BRIDGE & TUNNEL COMMISSION  
AND  
NEW JERSEY INTERSTATE  
BRIDGE & TUNNEL COMMISSION  
THE HOLLAND TUNNEL  
CONTRACT No. 14  
CONTRACT DRAWING No. 132

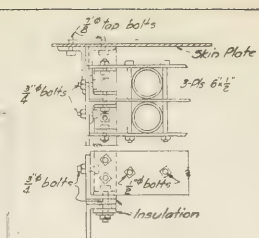
SCALE: 0 1 2 3 4 FEET

DATE OCTOBER 20, 1925

*Ol. Smeets*  
CHIEF ENGINEER

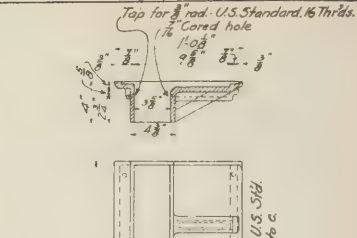
FILE NO. 1-14





DETAIL OF INSULATED  
SUPPORTS FOR 3½" STEEL  
CONDUITS

SCALE 0 3 6 9 12 INCHES



be tapped for  
about 10 c.

For Key Plan see Contract Dwg No. 131 File No. 146	
* Sect. A-A	" " " 127 " - 1-4
* " B-B	" " " 128 " - 1-4
* " C-C	" " " 129 " - 1-4
* " D-D	" " " 130 " - 1-4

NEW YORK STATE  
BRIDGE & TUNNEL COMMISSION  
AND  
NEW JERSEY INTERSTATE  
BRIDGE & TUNNEL COMMISSION  
                      
THE HOLLAND TUNNEL  
CONTRACT No. 14  
CONTRACT DRAWING No. 132

SCALE  FEET DATE OCTOBER 20, 1925

*Ch. Singstad*  
CHIEF ENGINEER

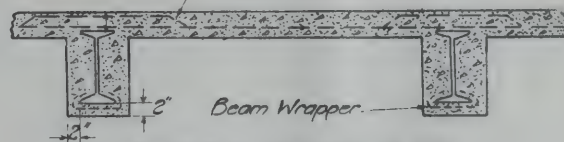
M. B. Brown Printing & Binding Co.,  
17-41 Chambers Street N. Y.

DRAWN BY *ARP*  
CHECKED BY *Ray*

## INTERIOR RIVER SHAFTS - NEW JERSEY

CHIEF ENGINEER

Every third bar bent up.



### TYPICAL FLOOR SLAB

Scale 0 1 2 3 Feet

For typical details of gunite partitions and reinforcement see Architectural Drawings of River Ventilation Building, N.J. Contract Dwg's Nos. 61 & 81. File No. 1-14

Existing outstanding legs of angles requiring removal adjacent to stairways and passageways shall be made smooth & free of burrs and sharp edges.

All interior air ducts surfaces to be smooth finish.

For Key Plan see Contract Dwg. No. 131 File No. 1-14

" Sect. A-A " " " 127 " " 1-14

" " 8-5 " " " 128 " " 1-14

" " C-C " " " 129 " " 1-14

" " D-D " " " 130 " " 1-14

NORTH

NEW YORK STATE  
BRIDGE & TUNNEL COMMISSION  
AND  
NEW JERSEY INTERSTATE  
BRIDGE & TUNNEL COMMISSION  
THE HOLLAND TUNNEL  
CONTRACT No. 14  
CONTRACT DRAWING No. 133

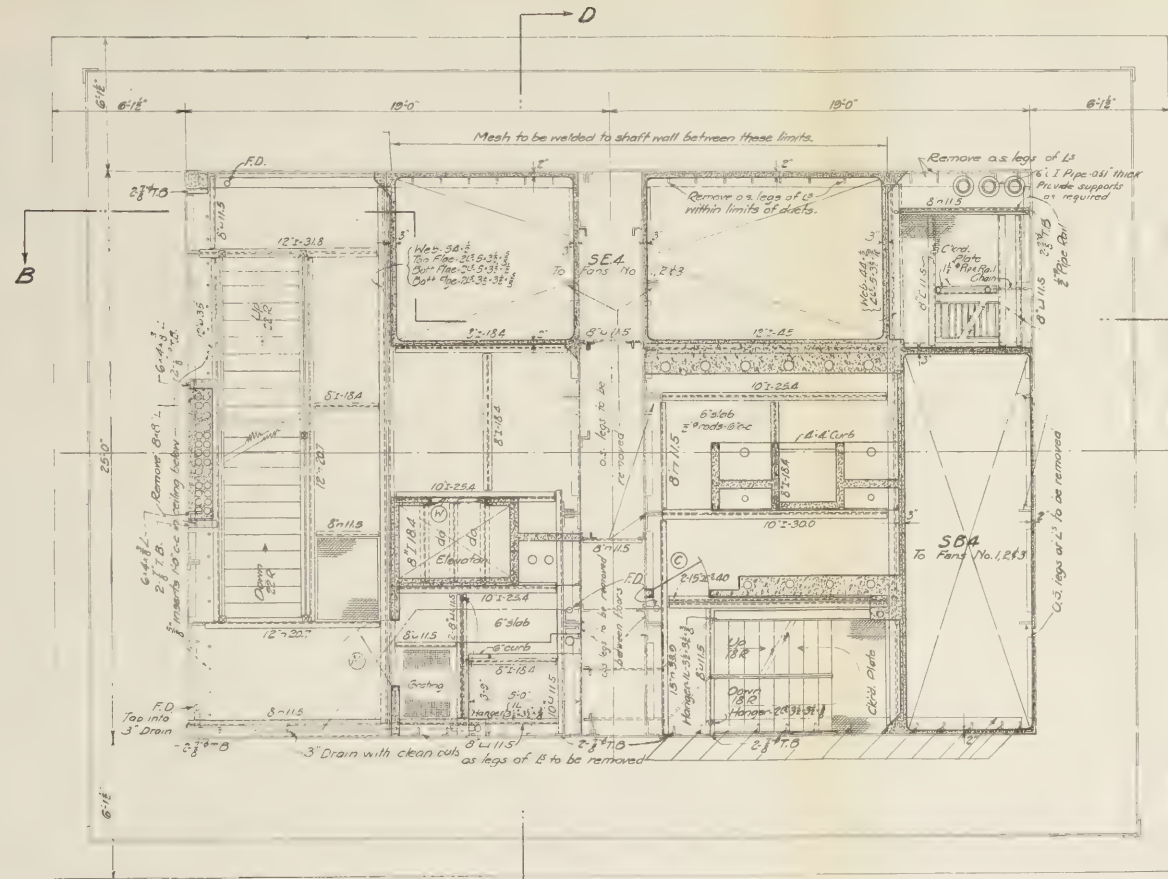
SCALE: 0 1 2 3 4 FEET

DATE OCTOBER 20 1925

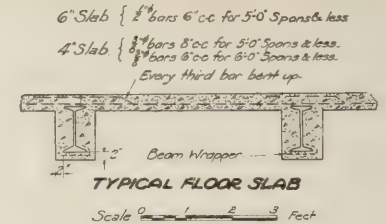
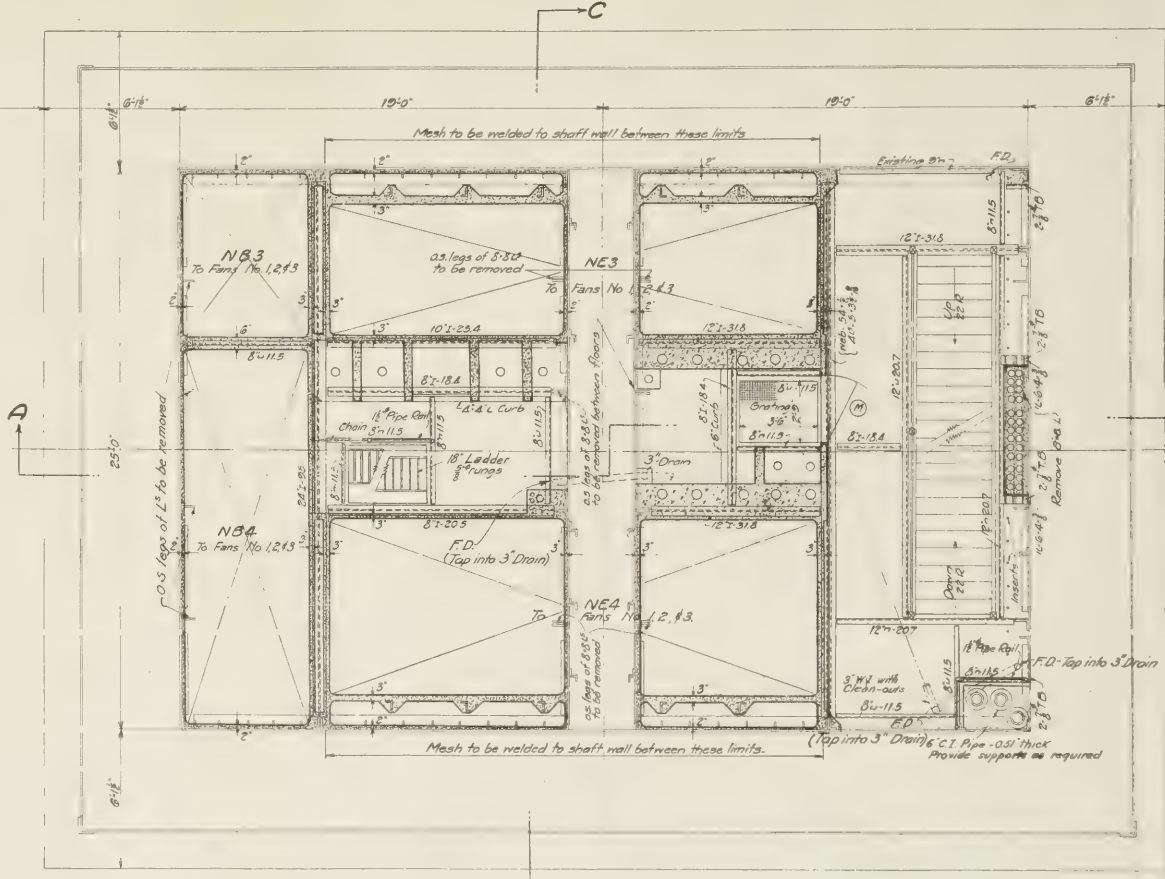
*Oliver Singstad*  
CHIEF ENGINEER

FILE NO. 1-14





SECTION G-G  
El. 245.21



For typical details of concrete partitions and reinforcement see Architectural Drawings of River Ventilation Building, N.J. Contract Dwg. Nos. 61 & 31. File No. 1-14

Existing outstanding legs of angles requiring removal adjacent to stairways and passageways shall be made smooth & free of burrs and sharp edges.  
All interior air ducts surfaces to be smooth finish.

For Key Plan see Contract Dwg. No. 131. File No. 1-14

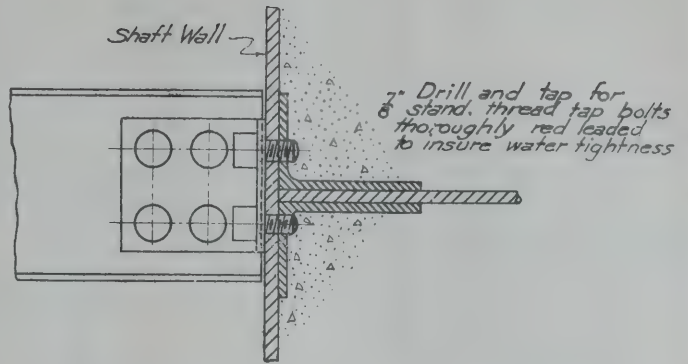
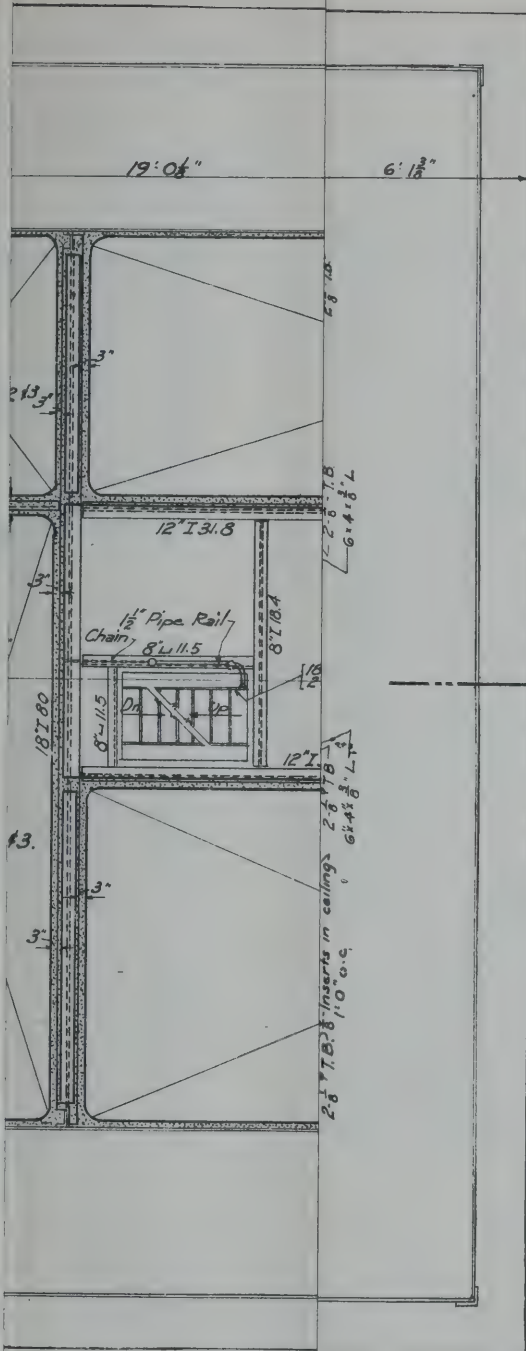
" Sect. A-A	"	"	127	"	1-14
" " B-B	"	"	128	"	1-14
" " C-C	"	"	129	"	1-14
" " D-D	"	"	130	"	1-14

# INTERIOR RIVER SHAFTS-NEW JERSEY

NEW YORK STATE  
BRIDGE & TUNNEL COMMISSION  
AND  
NEW JERSEY INTERSTATE  
BRIDGE & TUNNEL COMMISSION  
THE HOLLAND TUNNEL  
CONTRACT No. 14  
CONTRACT DRAWING No. 133

SCALE 0 1 2 3 4 FEET DATE OCTOBER 20, 1914

CHAS. J. S. JONES



**TYPICAL TAP BOLT CONNECTION**

SCALE 0 1 2 3 4 5 6 INCHES

For Key Plan see Contract Dwg. No. 131. File No. 1-14

• Sect. A-A	"	"	"	127	"	1-14
" " B-B	"	"	"	128	"	1-14
" " C-C	"	"	"	129	"	1-14
" " D-D	"	"	"	130	"	1-14

NEW YORK STATE  
BRIDGE & TUNNEL COMMISSION  
AND  
NEW JERSEY INTERSTATE  
BRIDGE & TUNNEL COMMISSION

**THE HOLLAND TUNNEL**  
CONTRACT No. 14  
CONTRACT DRAWING No. 134

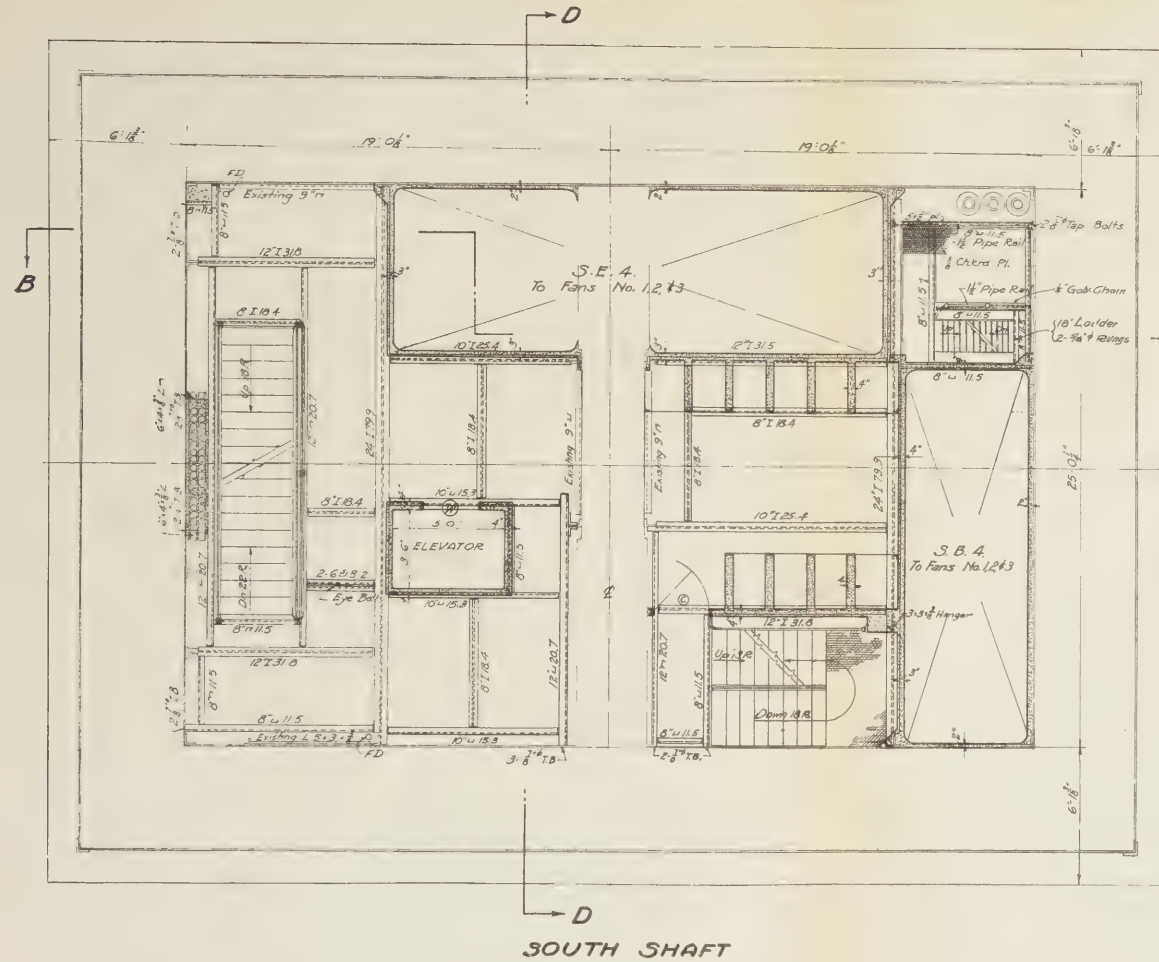
SCALE: 0 1 2 3 4 FEET

DATE OCTOBER 20, 1928

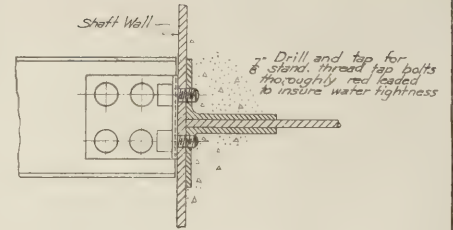
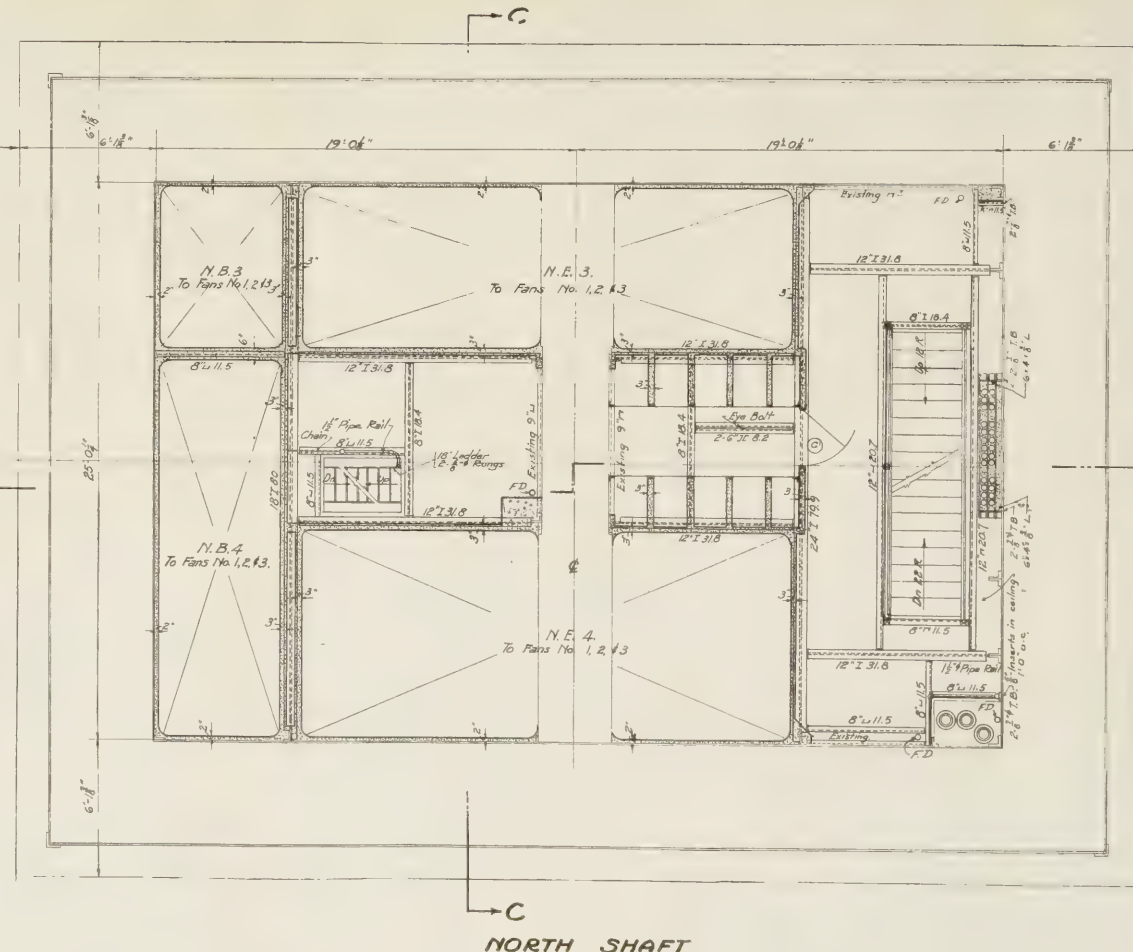
*Ole Singsstad*  
CHIEF ENGINEER

FILE NO. 1-14





SECTION H-H  
El. 259.42



TYPICAL TAP BOLT CONNECTION  
SCALE 0 1 2 3 4 INCHES

For Key Plan see Contract Dwg. No. 131. File No. 1-14.  
 • Sect. A-A = " " " 127 = " 1-14  
 • " B-B = " " " 128 = " 1-14  
 • " C-C = " " " 129 = " 1-14  
 • " D-D = " " " 130 = " 1-14

# INTERIOR RIVER SHAFTS - NEW JERSEY

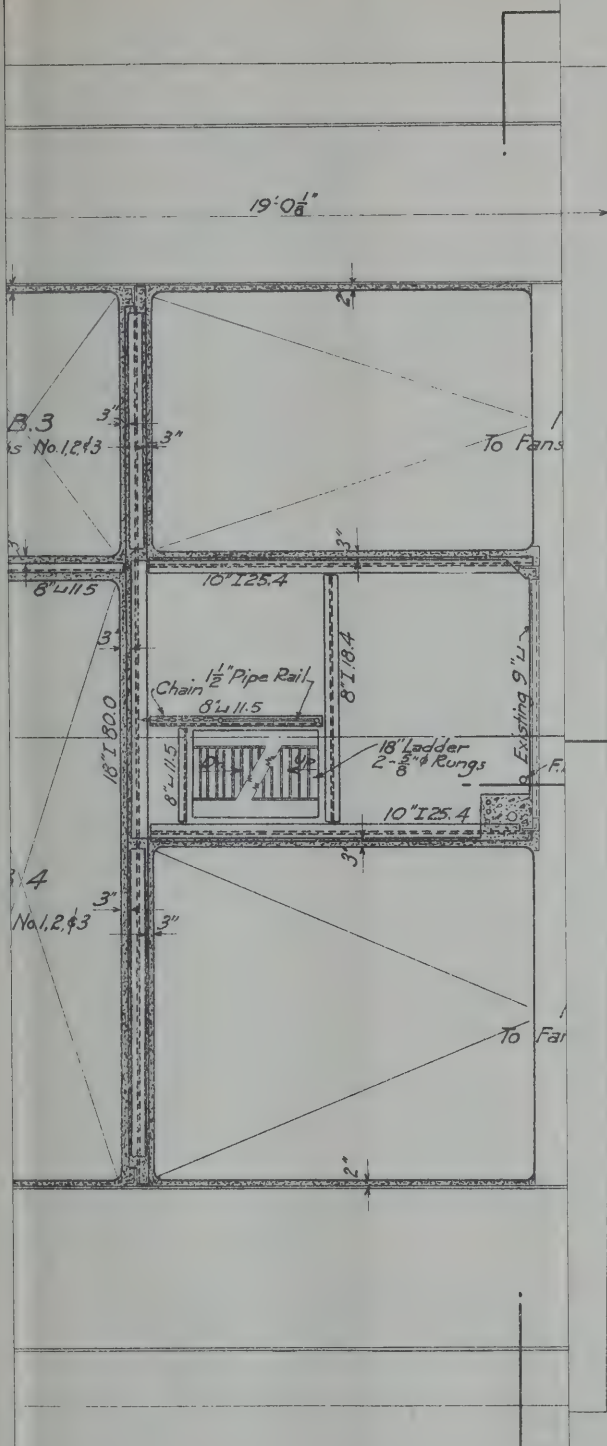
NEW YORK STATE  
BRIDGE & TUNNEL COMMISSION  
AND  
NEW JERSEY INTERSTATE  
BRIDGE & TUNNEL COMMISSION  
THE HOLLAND TUNNEL  
CONTRACT No. 14  
CONTRACT DRAWING No. 134

SCALE 0 1 2 3 4 FEET DATE OCTOBER 20, 1928

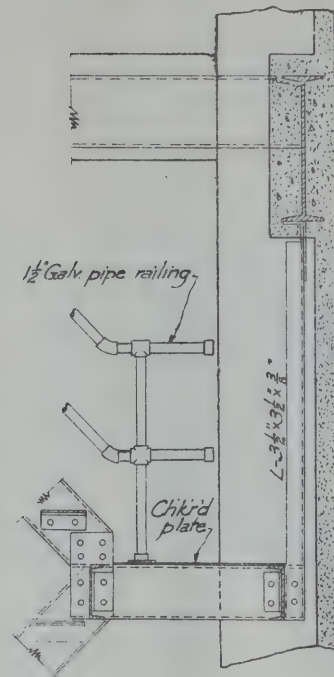
Chief Engineer  
FILE NO. 1-14

DESIGN BY J. W. D.  
CHECKED BY J. W. D.

Engineer of Design



NORTH



Section A-A

SCALE 0 1 2 FEET

For Key Plan see Contract Dwg. No. 131 File No. 1-14  
 " Sect. A-A " " " " 127 " " 1-14  
 " " B-B " " " " 128 " " 1-14  
 " " C-C " " " " 129 " " 1-14  
 " " D-D " " " " 130 " " 1-14

NEW YORK STATE  
 BRIDGE & TUNNEL COMMISSION  
 AND  
 NEW JERSEY INTERSTATE  
 BRIDGE & TUNNEL COMMISSION  
 THE HOLLAND TUNNEL  
 CONTRACT No. 14  
 CONTRACT DRAWING No. 135

SCALE 0 1 2 3 4 FEET

DATE OCTOBER 20, 1925

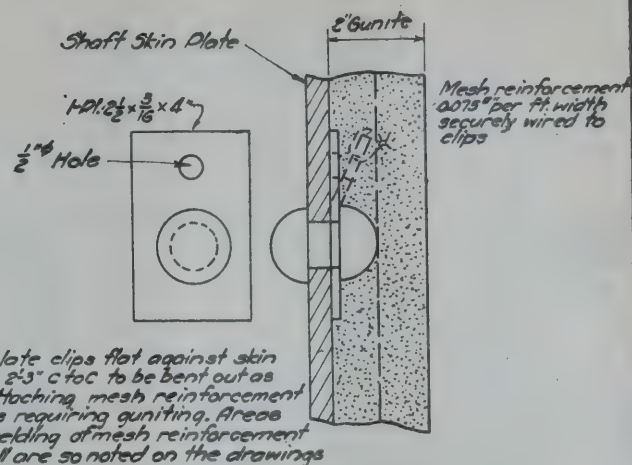
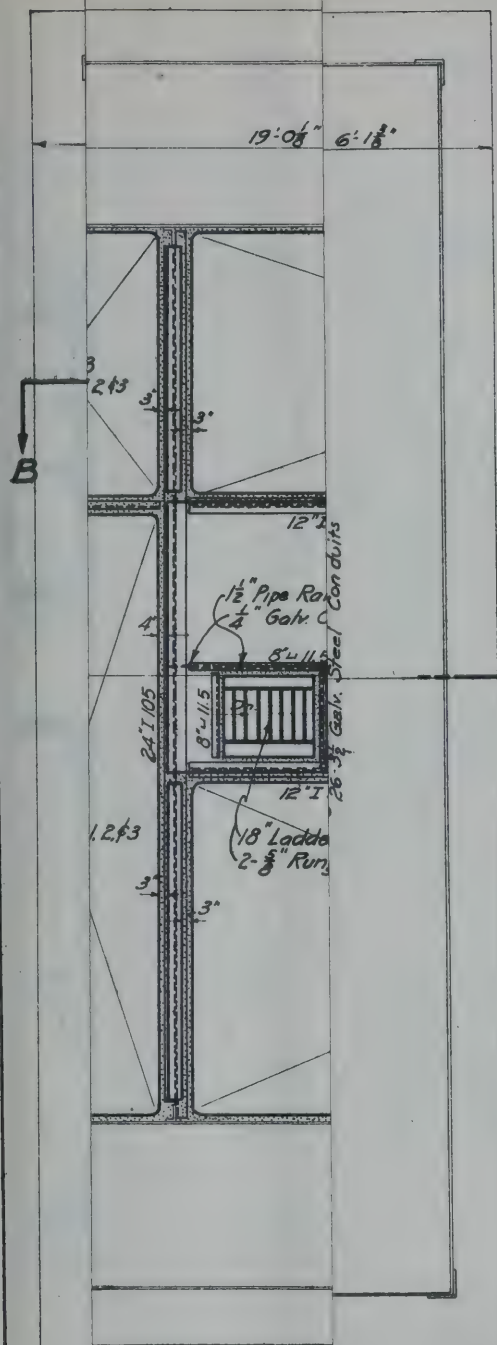
*Ole Singstad*  
 CHIEF ENGINEER

FILE NO. 1-14

M. B. Brown Printing & Binding Co.,  
 37-41 Chambers Street, N. Y.







### DETAIL OF CLIPS ON SHAFT WALL

SCALE 0 1 2 3 INCHES

For Key Plan see Contract Dwg. No. 131 File No. 1-14

"	Sect A-A	"	"	"	127	"	1-14
"	"	B-B	"	"	128	"	1-14
"	"	C-C	"	"	129	"	1-14
"	"	D-D	"	"	130	"	1-14

NEW YORK STATE  
BRIDGE & TUNNEL COMMISSION  
AND  
NEW JERSEY INTERSTATE  
BRIDGE & TUNNEL COMMISSION  
THE HOLLAND TUNNEL  
CONTRACT No. 14  
CONTRACT DRAWING No. 136

SCALE: 0 1 2 3 4 FEET

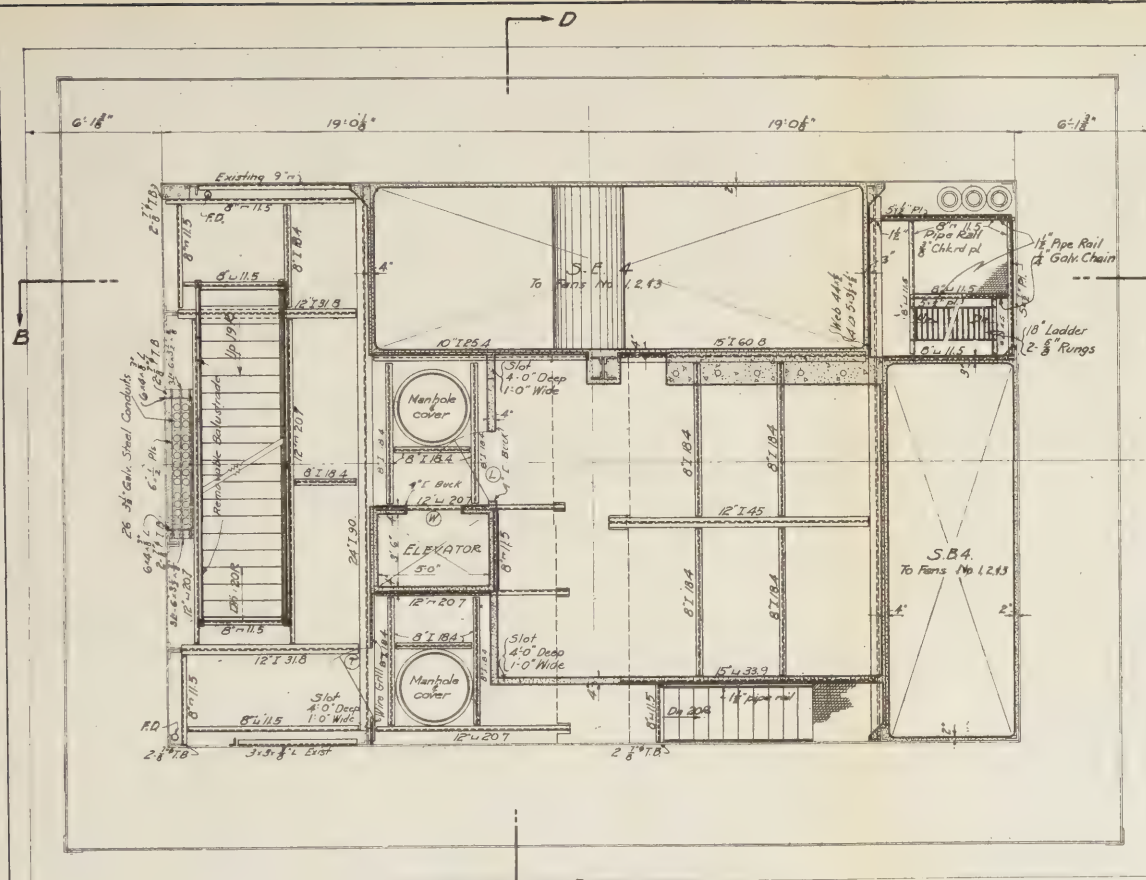
DATE OCTOBER 20 1928

*Old Sargent*  
CHIEF ENGINEER

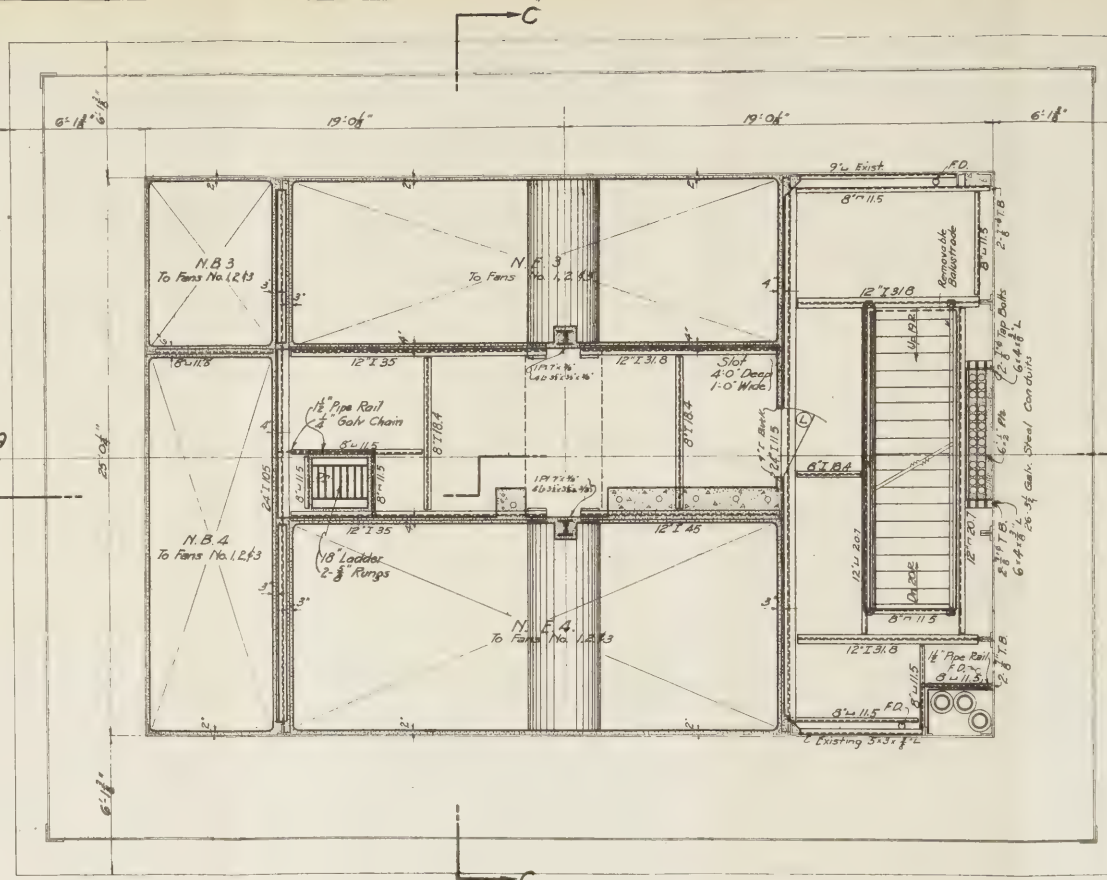
FILE NO. 1-14

DRAW  
CHECK





SOUTH SHAFT



NORTH SHAFT

SECTION J-J

El. 283.96

INTERIOR RIVER SHAFTS-NEW JERSEY

DETAIL OF CLIPS ON SHAFT WALL

SCALE 1" = 4" INCHES

For Key Plan see Contract Dwg. No. 131 File No. 1-14  
 " Sect A-A " " " 127 " " 1-14  
 " " B-B " " " 128 " " 1-14  
 " " C-C " " " 129 " " 1-14  
 " " D-D " " " 130 " " 1-14

NEW YORK STATE  
 BRIDGE & TUNNEL COMMISSION  
 AND  
 NEW JERSEY INTERSTATE  
 BRIDGE & TUNNEL COMMISSION  
 THE HOLLAND TUNNEL  
 CONTRACT No. 14  
 CONTRACT DRAWING No. 136

SCALE 1" = 4" FEET DATE OCTOBER 20 1928

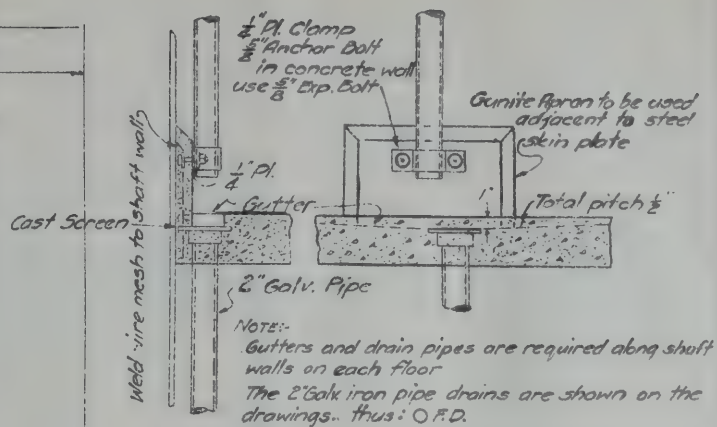
Chief Engineer

FILE NO. 1-14

J. B. Brown Printing & Binding Co.,  
 37-41 Chambers Street, N. Y.

DRAWN BY: R.V.B.  
 CHECKED BY: G.D. 60

ENGINEER OF DESIGN



### DETAIL OF FLOOR DRAINS

SCALE 0 3 6 9 12 INCHES

For Key Plan see Contract Dwg. No. 131. File No. 1-14

"	Seal: A-A	"	"	"	"	127	"	"	1-14
"	"	B-B	"	"	"	128	"	"	1-14
"	"	C-C	"	"	"	129	"	"	1-14
"	"	D-D	"	"	"	130	"	"	1-14

NEW YORK STATE  
BRIDGE & TUNNEL COMMISSION  
NEW JERSEY INTERSTATE  
BRIDGE & TUNNEL COMMISSION  
THE HOLLAND TUNNEL  
CONTRACT No. 14  
CONTRACT DRAWING No. 137

0 1 2 3 4  
SCALE CM

DATE OCTOBER 20 1925

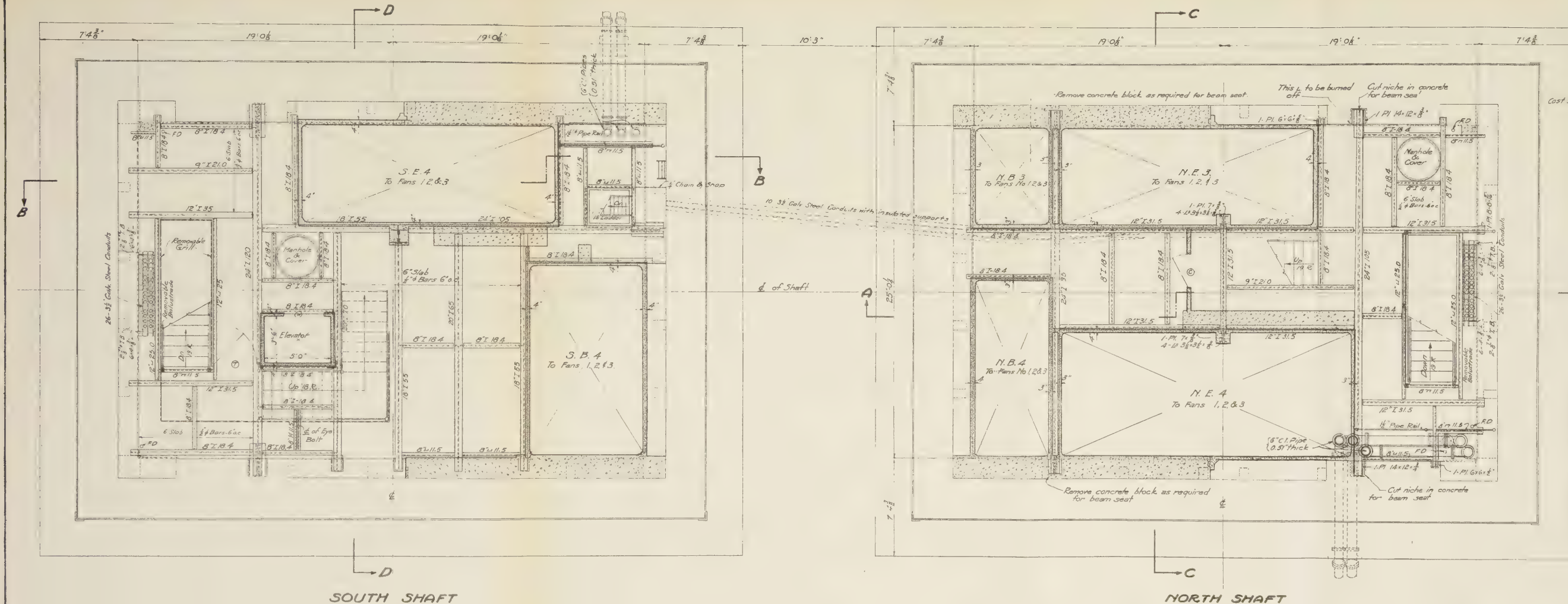
*Ch. Singstad*  
CHIEF ENGR. &C

FILE NO 1-14

M. B. Brown Printing & Binding Co.,  
37-41 Chambers Street, N. Y.

DRAW  
CHECK





# INTERIOR RIVER SHAFTS - NEW JERSEY

DRAWN BY...  
CHECKED BY...

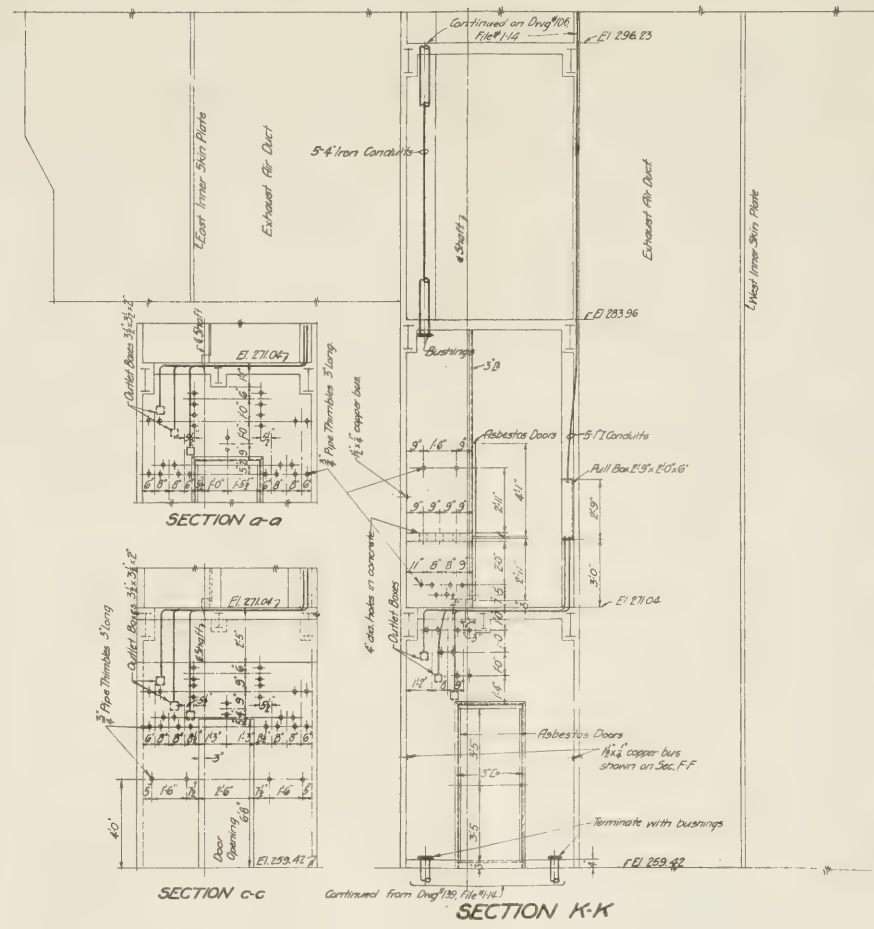
ENGINEER OF DESIGN

SCALE 1" = 4" FEET DATE OCTOBER 20 1925

CHIEF ENGINEER





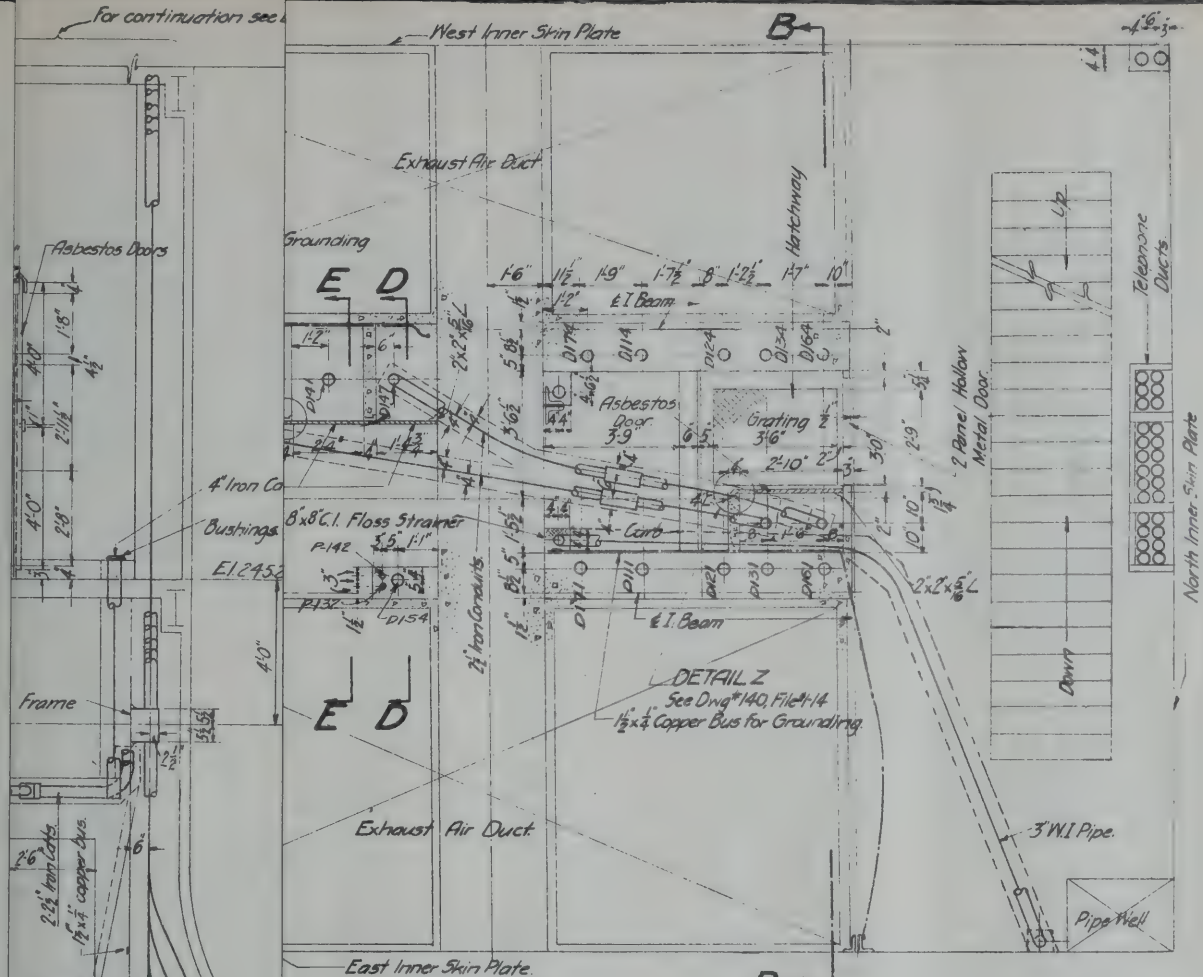


SCALE  FEET DATE OCTOBER 20 1925

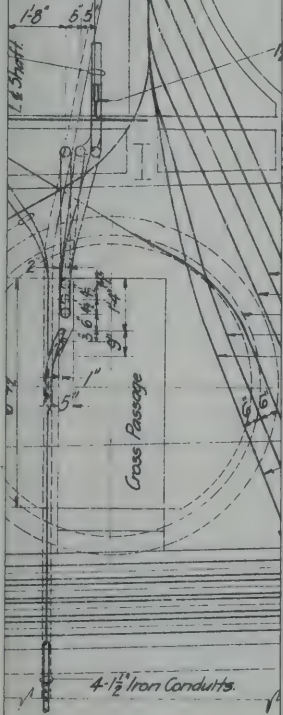
*Old Engineer*  
CHIEF ENGINEER

M. B. Brown Printing & Binding Co.  
17-41 Chambers Street, N. Y.

ELECTRICAL CONDUIT SYSTEM  
INTERIOR, NORTH RIVER SHAFT NEW JERSEY



**SECTION A-A**



**SECTION B-B**

Notes:  
 All conduits  $\frac{3}{4}$ " iron unless otherwise noted.  
 All  $\frac{3}{4}$ " conduits terminating in boxes to be closed with capped bushings, all larger conduits terminating in boxes to be closed with pennies under the bushings.  
 Conduits terminating above or below floor slabs to be threaded and capped from 3" to 40" above or below floor slab.  
 Ends of flare conduits to be plugged.  
 All ground connections to be spliced and soldered, where ground cables are connected to steel, the surface thereof to be sandpapered until shining bright just before connection is made.  
 Where conduits with same mark appear on different floors the length of same includes the vertical run.

NEW YORK STATE  
 BRIDGE & TUNNEL COMMISSION  
 AND  
 NEW JERSEY INTERSTATE  
 BRIDGE & TUNNEL COMMISSION  
**THE HOLLAND TUNNEL**  
 CONTRACT No. 14  
 CONTRACT DRAWING No. 139

*H. B. Stilwell*  
 CONSULTING ENGINEER

SCALE: 0 1 2 3 4 FEET DATE OCTOBER 29, 1925


*Ch. J. J. J.*  
 CHIEF ENGINEER

NEW JERSEY



[illegible]

NEW YORK STATE  
BRIDGE & TUNNEL COMMISSION  
AND  
NEW JERSEY INTERSTATE  
BRIDGE & TUNNEL COMMISSION  
THE HOLLAND TUNNEL  
CONTRACT No. 14  
CONTRACT DRAWING No. 139

SCALE:  FEET. DATE OCTOBER 20, 1965

B. Brown Printing & Binding Co.  
37-41 Chambers Street, N. Y.







J. N. Goodall  
--- FERTILIZER ENGINEER ---



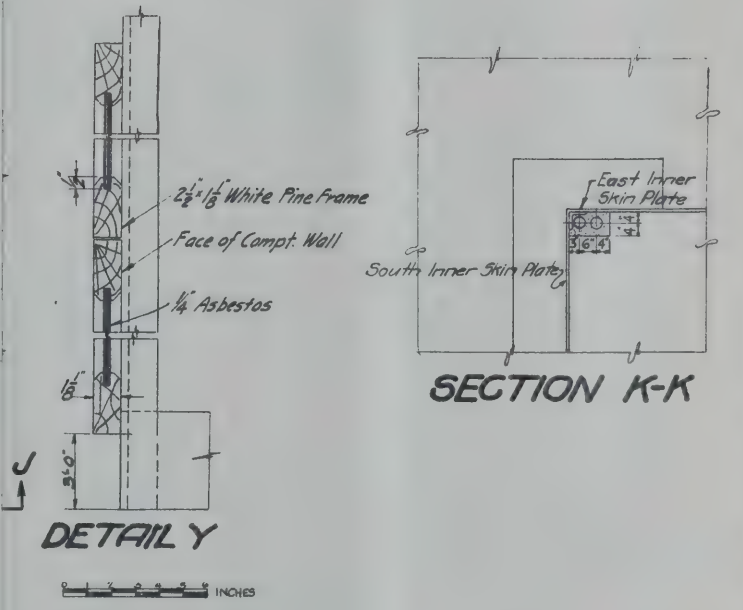
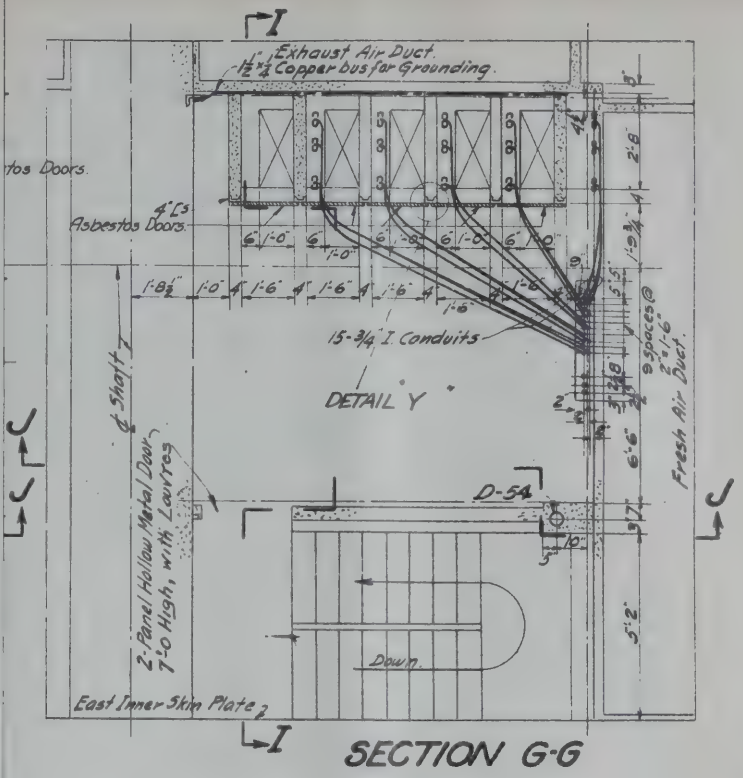
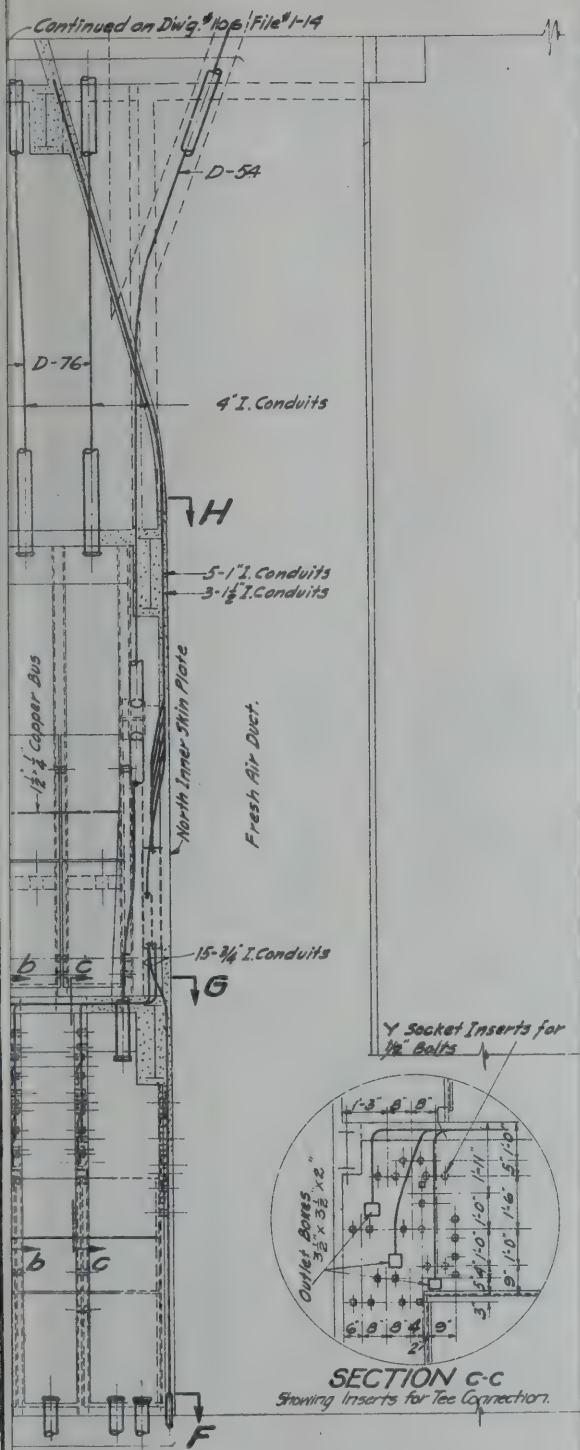
LEGEND

- Conducts in walls or floors
- Grounds Cable
- 3x3 1/2" cast iron outlet box in wall
- Conduit going up
- Conduit going down
- TC Threaded and capped.



SCALE  FEET DATE OCTOBER 20, 1911

M. B. Brown Printing & Binding Co.,  
37 41 Chambers Street, N. Y.



Notes:  
 All walls or floors  
 All larger  
 larger and  
 Cor. up  
 from 3"  
 down  
 Etc.  
 All  
 are con-  
 bright.  
 Where  
 some in  
 All

*Hill*  
 ENGINEER

NEW YORK STATE  
 BRIDGE & TUNNEL COMMISSION  
 AND  
 NEW JERSEY INTERSTATE  
 BRIDGE & TUNNEL COMMISSION  
 THE HOLLAND TUNNEL  
 CONTRACT No. 14  
 CONTRACT DRAWING No. 141

SCALE: 1" = 3' DATE: OCTOBER 20, 1923

*Oliver*  
 CHIEF ENGINEER

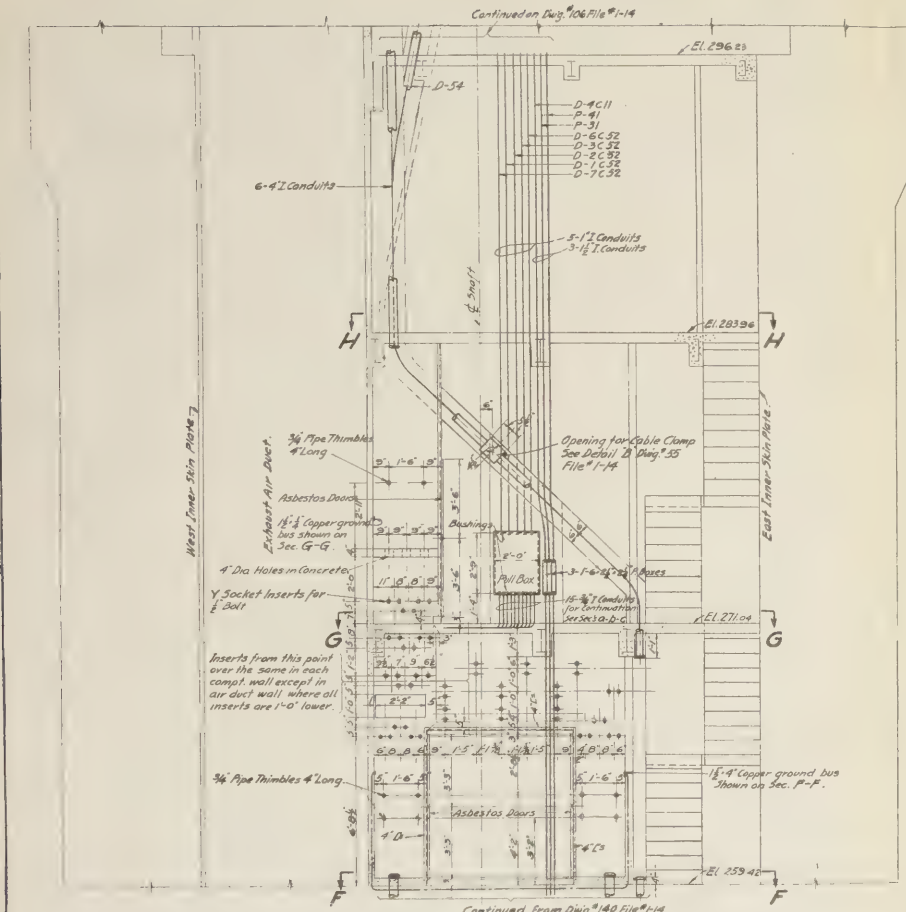
FILE NO. 141

M. B. Brown Printing & Binding Co.,  
 37-41 Chambers Street, N. Y.

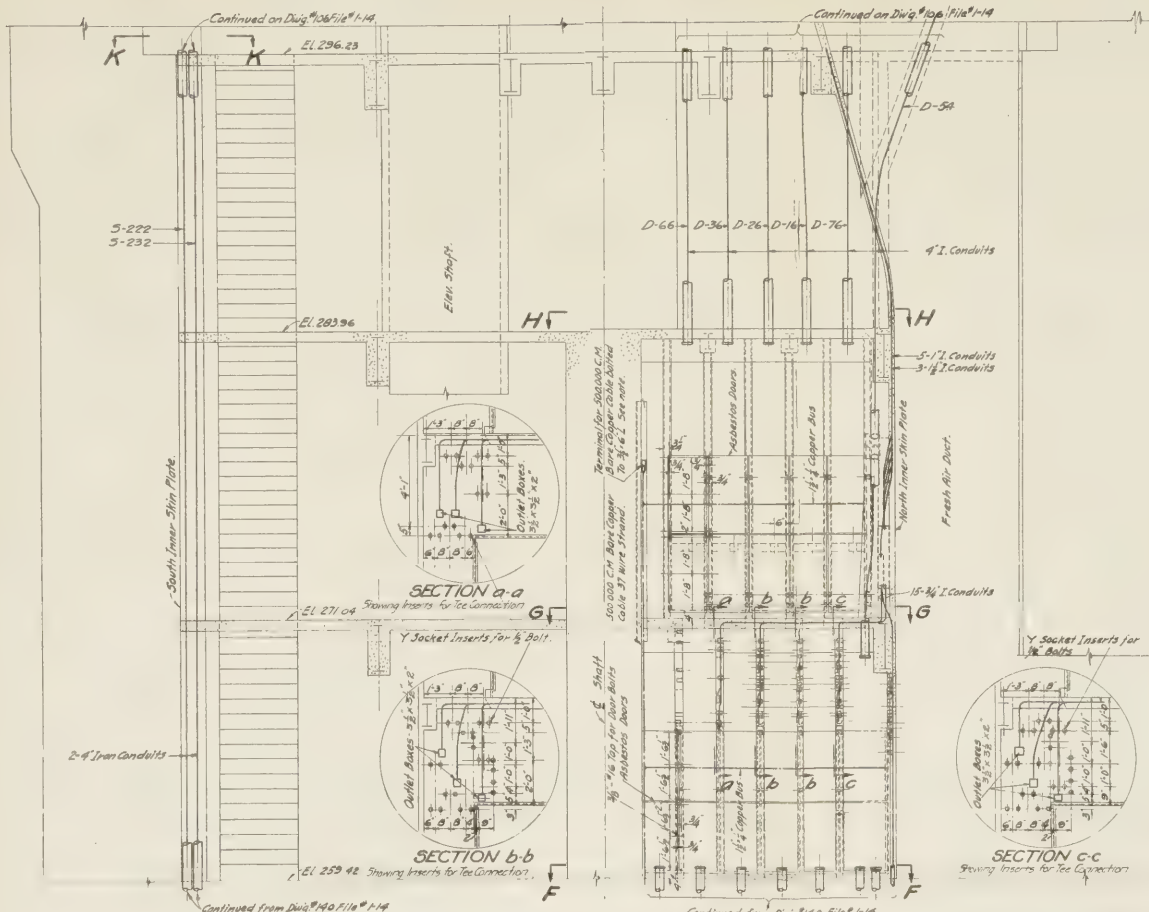
JERSEY

For Inter-  
 For Elec.  
 For Typo

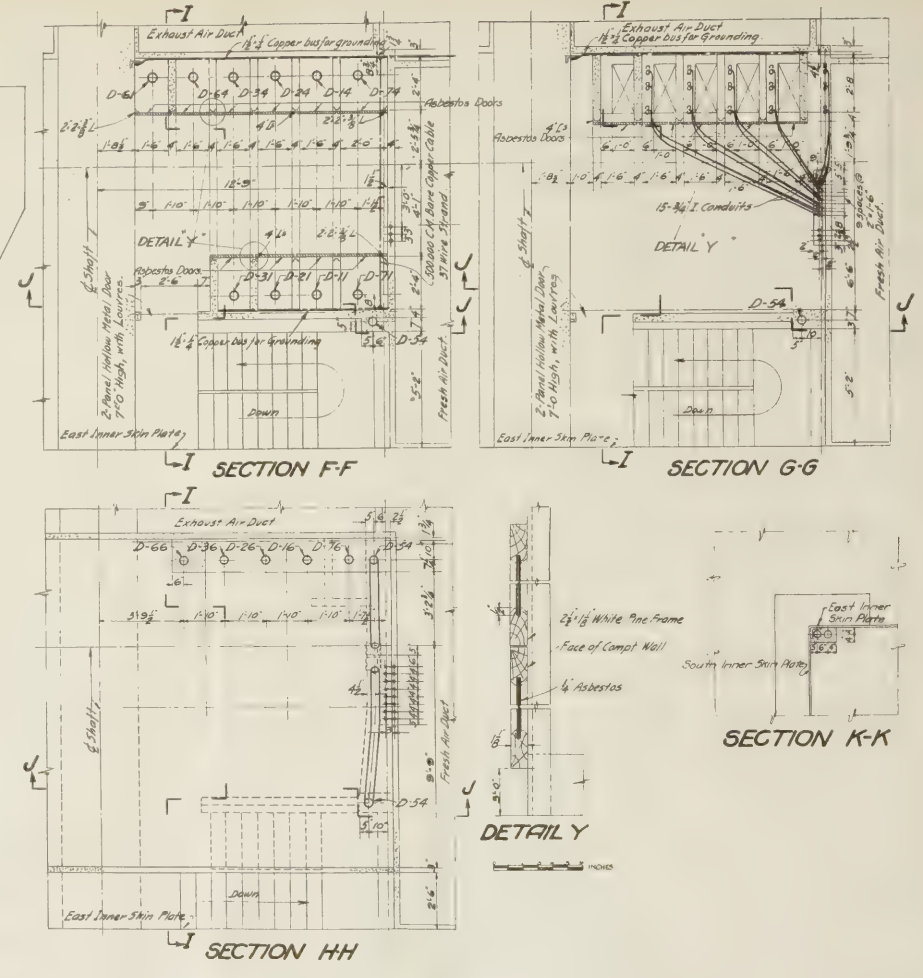




SECTION I-I



SECTION J-J



SECTION F-F

SECTION G-G

SECTION H-H

SECTION K-K

# ELECTRICAL CONDUIT SYSTEM INTERIOR, SOUTH RIVER SHAFT NEW JERSEY

**NOTES:**  
 All conduits 3/4" iron unless otherwise noted.  
 All 3/4" conduits terminating in boxes to be closed with capped bushings; all larger conduits terminating in boxes to be closed with 'pennies' under the bushings.  
 Conduits terminating above or below floor slabs to be threaded and capped from 3" to 10" above or below floor slab.  
 Ends of fire conduits to be plugged.  
 All ground connectors to be spliced and soldered, where ground cables are connected to steel the surface thereof to be sanded until shining bright just before connection is made.  
 Where conduits with same mark appear on different floor, the length or same includes the vertical run.  
 All conduits to be galvanized steel unless otherwise marked.

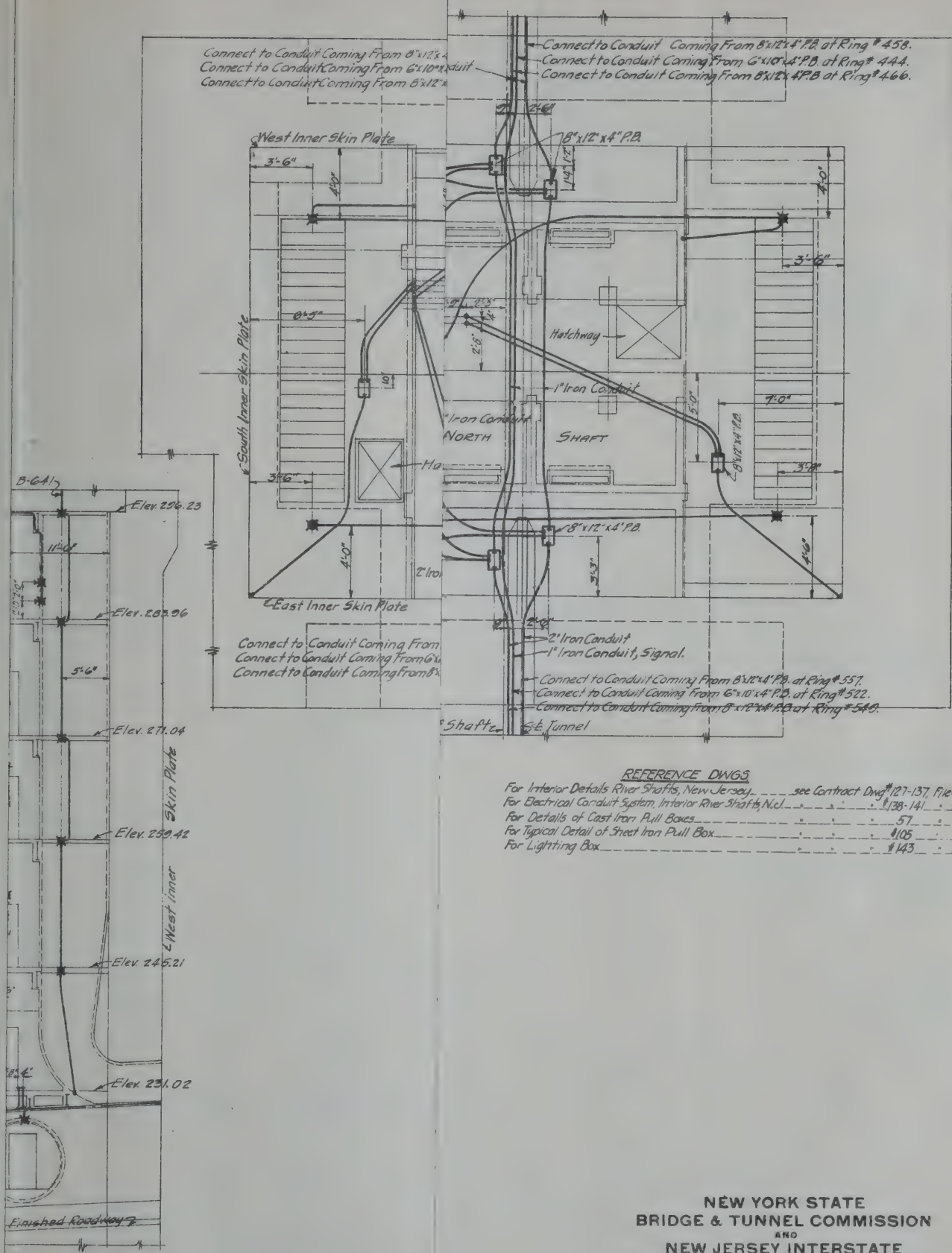
**LEGEND:**  
 — Conduits in walls or floors  
 — Ground Cable  
 — Conduit going up  
 — Conduit going down

**REFERENCE DWGS:**  
 For Interior River Shaft, New Jersey see Contract Divg. # 17 to 19, File # 14  
 For Elec. Conduit System, lower part of S. River Sh. N.J. see # 140 to # 144  
 For Typical Detail of Street Steel Pull Box # 105 to # 114

NEW YORK STATE  
BRIDGE & TUNNEL COMMISSION  
AND  
NEW JERSEY INTERSTATE  
BRIDGE & TUNNEL COMMISSION  
**THE HOLLAND TUNNEL**  
CONTRACT No. 14  
CONTRACT DRAWING No. 141

DESIGNED BY: *R. B. Stillwell*  
 CHECKED BY: *J. N. Odel*  
 ELECTRICAL ENGINEER  
 ELECTRICAL ENGINEER

SCALE: 1" = 10'-0"  
 DATE: OCTOBER 22, 1935  
*R. B. Stillwell*  
 CHIEF ENGINEER  
 M. B. Brown Printing & Binding Co.,  
 27-41 Chambers Street, N. Y.



**REFERENCE DWGS**  
 For Interior Details River Shafts, New Jersey. . . . . see Contract Dwg #127-137, File #144  
 For Electrical Conduit System, Interior River Shafts, N.J. . . . . #138-141 . . . #144  
 For Details of Cast Iron Pull Boxes . . . . . 57 . . . #144  
 For Typical Detail of Street Iron Pull Box . . . . . #105 . . . #144  
 For Lighting Box . . . . . #143 . . . #144

NEW YORK STATE  
 BRIDGE & TUNNEL COMMISSION  
 AND  
 NEW JERSEY INTERSTATE  
 BRIDGE & TUNNEL COMMISSION  
**THE HOLLAND TUNNEL**  
 CONTRACT No. 14  
 CONTRACT DRAWING No. 142

*Willwell*  
 ENGINEER

SCALE: 0 1 2 3 4 5 6 FEET. DATE: OCTOBER 20, 1925

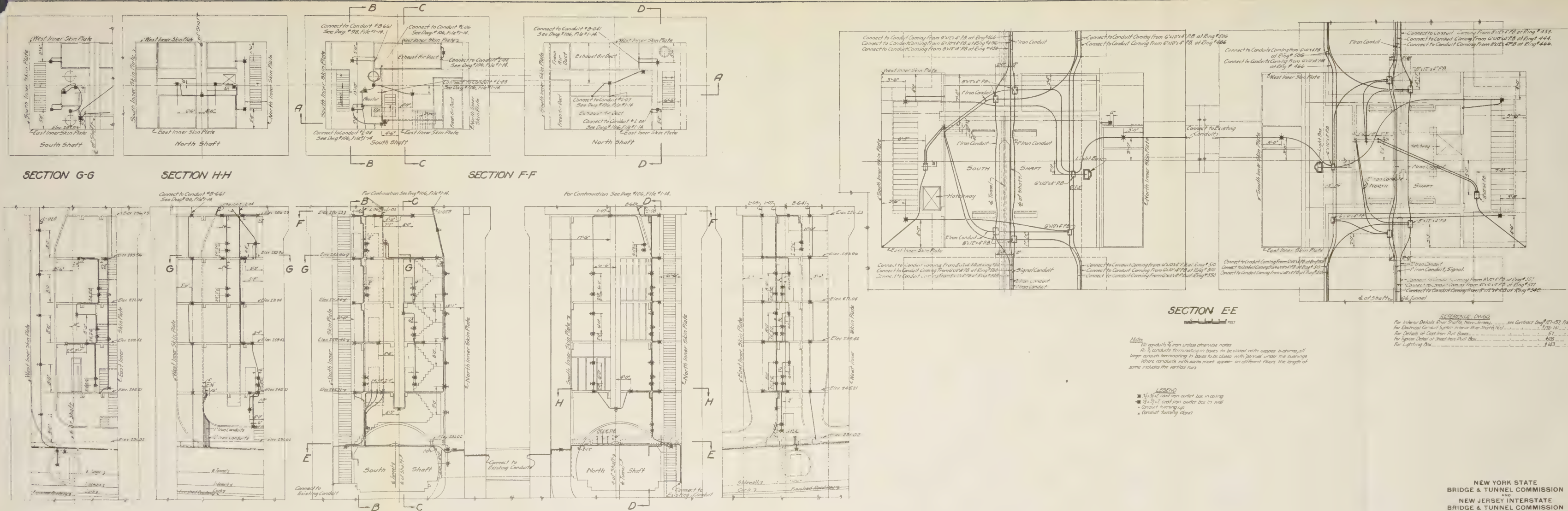
*Ol. Supted*  
 CHIEF ENGINEER

FILE NO. 1-14

M. B. Brown Printing & Binding Co.,  
 37-41 Chambers Street, N. Y.

D-D  
 TEM  
 NT SYSTEM  
 TS, NEW JERSEY





SECTION D-D  
LIGHTING SYSTEM  
ELECTRICAL CONDUIT SYSTEM  
INTERIOR RIVER SHAFTS, NEW JERSEY

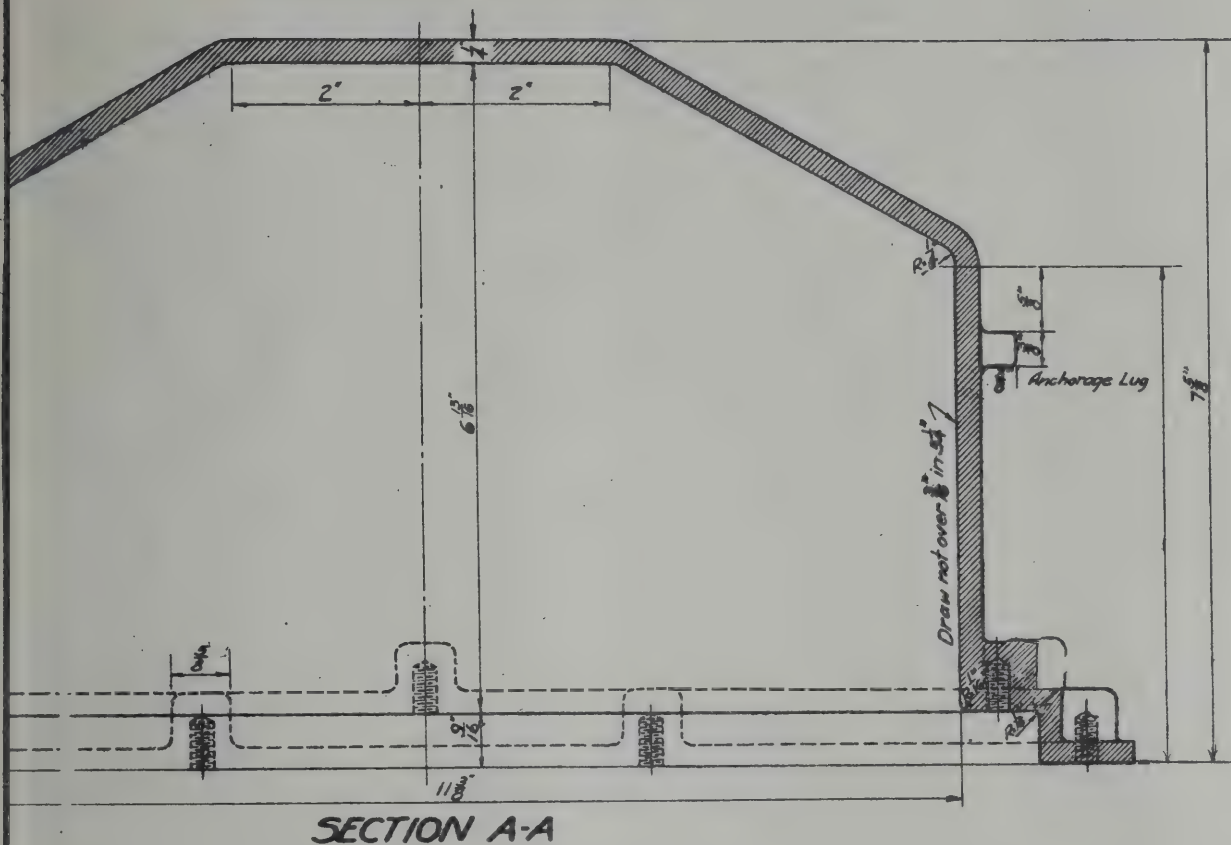
NEW YORK STATE  
BRIDGE & TUNNEL COMMISSION  
AND  
NEW JERSEY INTERSTATE  
BRIDGE & TUNNEL COMMISSION  
THE HOLLAND TUNNEL  
CONTRACT No. 14  
CONTRACT DRAWING No. 142

L. B. Stollwell  
CONSULTING ENGINEER

SCALE: 1" = 1'-0" 1/2" = 1'-0" 3/4" = 1'-0"  
DATE: OCTOBER 20, 1925

FILE NO. 146

M. B. Brown Printing & Binding Co.,  
37-41 Chambers Street, N. Y.



galvanized inside and out.  
 ends to be clean and sharp, free  
 and protected by rust proof

marked "3" to be free of burrs  
 and to be ground if necessary.  
 holes to be drilled to template  
 the Commissions to insure perfect  
 the Frame and Cover  
 as shown thus  $\frac{5}{16}$ " must be exact.  
 in thus are  $\frac{1}{4}$ " holes for attaching  
 and are to be located approximately

NEW YORK STATE  
 BRIDGE & TUNNEL COMMISSION  
 AND  
 NEW JERSEY INTERSTATE  
 BRIDGE & TUNNEL COMMISSION  
**THE HOLLAND TUNNEL**  
 CONTRACT No. 14  
 CONTRACT DRAWING No. 143

*U. B. Stillwell*  
 CONSULTING ENGINEER

**LIGHT BOX  
 CONDUIT SYSTEM**

SCALE: INCHES.

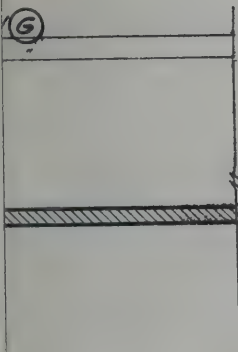
DATE: OCTOBER 27, 1928

*Ch. S. Sargent*  
 CHIEF ENGINEER















FILE NO. 1-14







LEGEND:—

-  Denotes area available for Contractor's use and location of River Ventilation Building N.J.
-    Denote areas available for Contractor's use as a roadway.
-   Denote areas available for Contractor's use, one for a period of 10 months and 2 weeks and the other for a period of 9 months.
-    Denote areas available for Contractor's use and location of Land Ventilation Building N.J. commencing April 1, 1926.
-    Denote areas available for Contractor's use for a period of 9 months commencing April 1, 1926.
-  Denotes area available for Contractor's use for a period of 4 months commencing not sooner than April 1, 1926.
-  Right of Way available for Contractor's use for a period of 4 months commencing not sooner than April 1, 1926.

Right of Way for pedestrians on Pier is available for Contractors use for a period of 9 months commencing April 1, 1926.

All areas available for the Contractor's use are subject to the use of other Contractor's or persons as stipulated in the contract.

Access to the land and river shafts may be had through the tunnels as stipulated in the contract.

HUDSON  
RIVER  
RIVER VENTILATION  
BUILDING, N. J.

NEW YORK STATE  
BRIDGE & TUNNEL COMMISSION  
AND  
NEW JERSEY INTERSTATE  
BRIDGE & TUNNEL COMMISSION  
THE HOLLAND TUNNEL  
CONTRACT No. 14  
CONTRACT DRAWING No. 144

SCALE: 0 20 40 60

DATE OCTOBER 20, 1925.

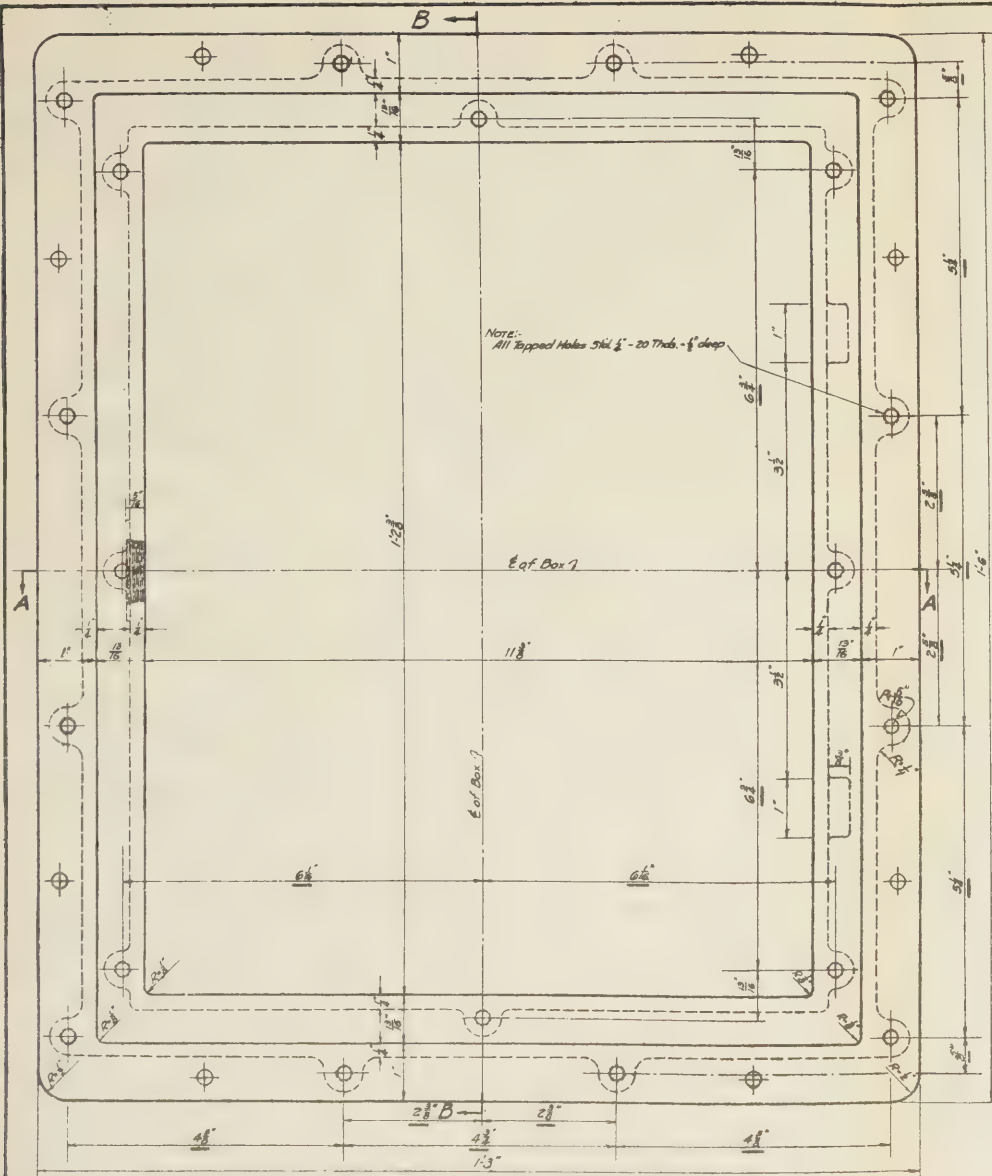
DRAWN BY C. J. [Signature]  
CHECKED BY [Signature]

*Ch. Simpkins*  
CHIEF ENGINEER

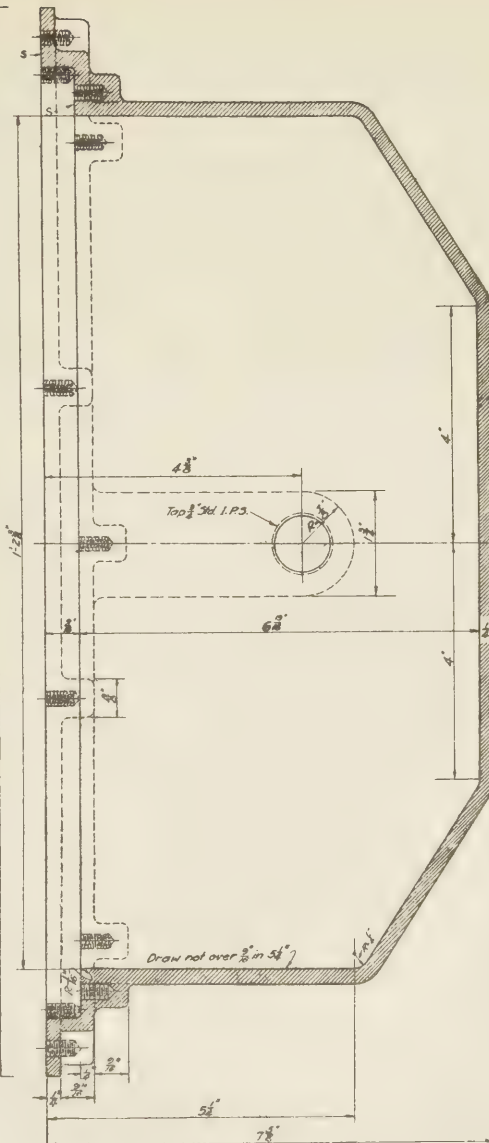
FILE NO. 1-14

M. B. Brown Printing & Binding Co.,  
37-41 Chambers Street, N. Y.

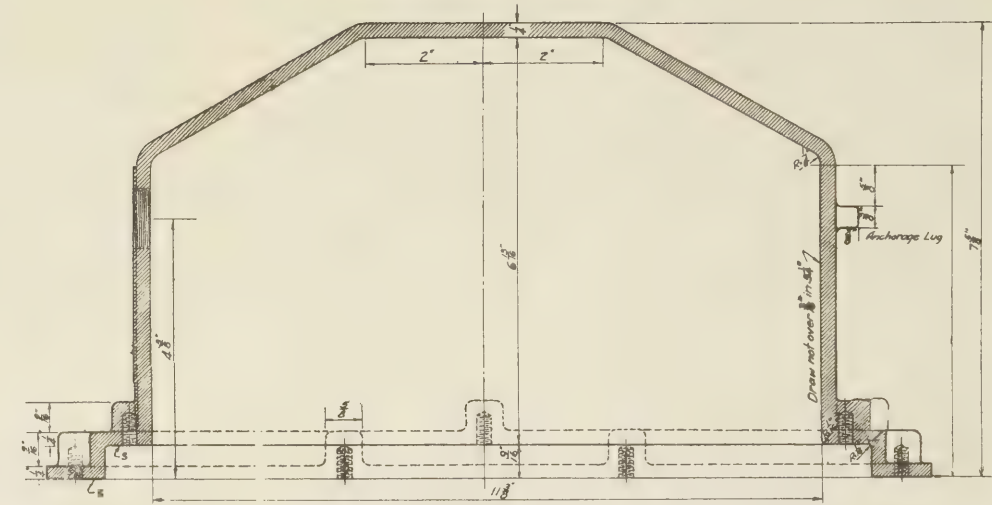




PLAN



SECTION B-B



SECTION A-A

NOTE:  
 Box to be galvanized inside and out.  
 All Threads to be clean and sharp, free of galvanizing and protected by rust proof material.  
 Surfaces marked "S" to be free of burrs and projections and to be ground if necessary.  
 All Tapped holes to be drilled to template furnished by the Commissions to insure perfect fitting of future frame and cover.  
 Dimensions shown thus  $\frac{5}{8}$  must be exact.  
 Holes shown thus are  $\frac{5}{8}$  holes for attaching box to form and are to be located approximately as shown.

# CAST IRON LIGHT BOX ELECTRICAL CONDUIT SYSTEM

NEW YORK STATE  
 BRIDGE & TUNNEL COMMISSION  
 AND  
 NEW JERSEY INTERSTATE  
 BRIDGE & TUNNEL COMMISSION  
 THE HOLLAND TUNNEL  
 CONTRACT No. 14  
 CONTRACT DRAWING No. 143

*U. B. Stillwell*  
 CONSULTING ENGINEER

SCALE: 1" = 1'-0"

DATE: OCTOBER 20, 1920

*Ch. S. Smith*  
 CHIEF ENGINEER

FILE NO. 1-14











UNIVERSITY OF ILLINOIS-URBANA



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